

Animal Behavior Abstracts

Annual Indexes to Volume 10 1982

QL
750
B543
V.10
1982
Index



ISSN 0300-5852

Cambridge Scientific Abstracts

An annual subscription to Animal Behavior Abstracts includes four quarterly issues, each containing an Author and Subject Index, and a separate Annual Author and Subject Index sent without further charge to subscribers after completion of the volume. Subscriptions are entered on a calendar year basis only.

Annual subscription rates 1982

| | |
|-----------------------------|-------|
| Americas | \$250 |
| Rest of the world (air) | £99 |
| Rest of the world (surface) | £95 |

Two-year subscription rates

Save 5% on a two-year subscription to the 1982 and 1983 volumes. To calculate the two-year rate, simply double the 1982 price above and deduct 5%.

Orders

Orders from or on behalf of subscribers in the various geographical areas shown below should be routed to the appropriate office or sole agent with payments made in the currencies marked:

Western hemisphere

(North, Central and South America — payment in US dollars)

Information Retrieval Inc.,
1911 Jefferson Davis Highway,
Arlington, VA 22202,
USA.

Japan

(payment in yen)

US Asiatic Company Limited,
Tsutsumi Building,
13-12 Shimbashi 1-chome,
Minato-ku, Tokyo 105, Japan.

India, Sri Lanka, Bangladesh, Nepal, Burma, Malaysia, Singapore, Indonesia and Thailand

Universal Subscription Agency Pvt. Ltd.,
117/H-1/294-B Model Town,
Pandu Nagar, Kanpur 208005,
India.

Israel

N.P.K. Meida Ltd.,
PO Box 10127,
Tel-Aviv 61101,
Israel.

Rest of the world

(payment in sterling)
Information Retrieval Limited,
PO Box 1,
Eynsham, Oxford OX8 1JJ,
England.

© 1982 Cambridge Scientific Abstracts

All rights reserved by the publisher. No part of this publication may be reproduced or transmitted in any form by any means, electronic or mechanical, including photocopying, recording or any information storage and retrieval system, without permission in writing from the publisher.

Animal Behavior Abstracts (ISSN 0300-5852) is published quarterly with an annual index for U.S. \$255.00 per year by Cambridge Scientific Abstracts, 5161 River Road, Bethesda, MD 20816. Second class postage paid at Bethesda, MD. POSTMASTER: Send address changes to Cambridge Scientific Abstracts, 5161 River Road, Bethesda, MD 20816.

Animal Behavior Abstracts

Annual Indexes to Volume 10 1982

Editorial advisor

P.P.G. Bateson, University of Cambridge, England

Editorial staff

Susan Compton

Mark Meschter

ISSN 0300-5852



Foreword

Animal Behavior Abstracts

commenced publication in 1973 and is published quarterly. Each issue contains approximately 1,400 abstracts followed by an author index and a combined subject and taxonomic index.

Coverage

In compiling each issue, CSA's editorial staff monitors approximately 5000 primary journals and other source references for papers falling within the scope of Animal Behavior Abstracts.

Subject scope and arrangement of subject matter

The table of contents shows the full scope of the journal. Papers devoted to subjects which border on behavior, ranging from neurophysiology to ecology, and from genetics to social anthropology are covered. Furthermore, Animal Behavior Abstracts also covers the important journals dealing with the biology of particular taxonomic groups. Abstracts are allocated to the section to which they are most relevant and cross-referred to other sections where appropriate.

Using this journal

Full details of the bibliographic data cited for each abstract and of abbreviations used can be found in the first issue of this volume.

Author Index

- Aake Norberg, R. 372.
 Aabondandoli, D. 1651.
 Abel, E.L. 1610, 3251, 3257.
 Able, K.P. 3019.
 Abnaut, L. 1746.
 Abou Zeir-Har, M.S. 3325.
 Abraham, L.D. 931.
 Abrams, J. 1535.
 Abrams, R.O. 1037.
 Ackmann, J.P. 975.
 Ackerman, B.B. 1490.
 Ackerman, J.D. 2652.
 Ackonor, J.B. 56.
 Acquavella, A.P. 2720.
 Adachi, I. 428.
 Adam, K. 765.
 Adamec, R.E. 71, 72, 73.
 Adams, C.D. 3951.
 Adams, C.E. 1330.
 Adams, G. 1318, 2757.
 Adams, J. 4301.
 Adams, L.M. 3200.
 Adams, N. 1090, 1690.
 Adams, P.M. 1012.
 Adams, R. 2366.
 Adamus, J.E. 2236.
 Adato-Barnon, A.M. 1438.
 Addison, W.E. 3635.
 Adey, W.H. 3656.
 Adeyemo, O. 1372.
 Adkins-Regan, E. 4398.
 Adler, C.H. 999.
 Adler, M.W. 999.
 Adler, N. 2501.
 Adler, N.T. 857, 2506, 3578.
 Adler, P.H. 2632.
 Adrien, J. 771.
 Advani, R. 2740, 2744.
 Aertsen, A.M.H.J. 732.
 Afion, A.D. 2198.
 Agarwal, G.P. 321, 2390.
 Ages, H.R. 712.
 Aggleton, J.P. 2061.
 Agnati, L.F. 1990.
 Agrawal, A.K. 940.
 Agroy, G. 2497.
 Aguero, A. 393.
 Aguerre, I.M. 2214.
 Ahlenius, S. 2149, 4319.
 Ahmadi, J. 3491.
 Ahuja, A.K. 4158.
 Aikawa, H. 2089.
 Aiken, R.B. 1239, 2400.
 Ainslie, G. 1800.
 Aitken, P.G. 804.
 Akase, E. 3275.
 Akberali, H.B. 423, 2776.
 Ake Norberg, R. 1479.
 Akerboom, S. 4098.
 Akhmetov, I.Z. 761.
 Akins, D.L. 4493.
 Akins, F.R. 4493.
 Akre, R.D. 2564, 3610.
 Aktac, N. 2658.
 Akutsa, K. 1593.
 Akutsu, K. 2408.
 Al Satti, M. 793.
 Al-Hakim, M.K. 2499.
 Al-Malik, S. 2338.
 Al-Shabibi, U.M.H. 906.
 Alatalo, R.V. 1297, 2715, 3548, 3813.
 Albers, H.E. 3105.
 Albert, D.J. 74, 882, 2015, 3199, 4247.
 Albert, V. 4170.
 Albertini, R. 75.
 Albertini, J.R. 2549.
 Alberts, S.A. 113.
 Albignac, R. 92.
 Albonetti, E. 4049.
 Albonetti, E. 660.
 Albov, S.-A. 3819.
 Albrecht, F.O. 1547.
 Alcock, J. 2399, 2427, 3522.
 Alder, E.M. 2483.
 Alder, L.P. 2732.
 Aldrich, S. 2241.
 Aleksandrov, L.I. 3815.
 Alexander, G. 2221, 3351, 4451.
 Alexander, G.J. 4286.
 Alexander, G.M. 874.
 Alexander, K.R. 1878.
 Alfano, D.P. 3228.
 Alfaro, R.I. 2638.
 Algeri, S. 1606.
 Algom, D. 3808, 3809.
 Ali Shah, M. 2647.
 Ali, S.B.A. 2499.
 Allen, C.T. 292.
 Allen, G.E. 1132.
 Allen, J.D. 4336.
 Allen, J.L. 1104, 3466.
 Allen, M. 3581.
 Allen, T. 1644.
 Allen, T.O. 857.
 Allen, W.A. 304.
 Altman, J. 723.
 Altman, J.M. 1896.
 Alloy, L.B. 554.
 Alonso, G. 904.
 Alpert, M. 3282.
 Alpert, S.S. 4434.
 Alstermark, B. 3983.
 Althoff, D.P. 89.
 Allog, R. 226.
 Altman, H.J. 3147.
 Altman, J. 1955.
 Altman, J. 2923.
 Altman, S. 2923.
 Altman, V.G. 1844.
 Alvarez, E.O. 4169.
 Alvarez, F. 3866.
 Alvarez, I.M. 563.
 Ambrose, R.F. 2774.
 Ameyaw-Akumfi, C. 3489.
 Amir, S. 1575.
 Amirudini, A. 2708.
 Amit, Z. 2116, 3186, 4208, 4268, 4480.
 Ammendola, D. 834.
 Amodei, N. 555.
 Amorino, L. 3246.
 Amoss, M.S. Jr. 4459.
 Ampfeler, E.J. 2791.
 Amsel, A. 1730, 2922, 3897.
 Amstrup, S.C. 2662.
 Ananthakrishnan, T.N. 117.
 Ancill, M. 813.
 Andre, D.K. 2739.
 Anderson, C.A. 595.
 Anderson, C.M. 3647.
 Anderson, D.C. 2927, 4118.
 Anderson, D.M. 3355.
 Anderson, G.M. 2167, 3889.
 Anderson, P.K. 2902.
 Anderson, T.J. 2842.
 Andersson, M. 1390, 1469.
 Andread, U. 181.
 Andren, C. 1014.
 Andres, S. 1378.
 Andres, S.L. 3559.
 Andrew, R.J. 1722, 1979, 3308.
 Andrews, C.D. 4192.
 Andrews, R.H. 3376, 3502.
 Andrianov, V.V. 3334.
 Anger, W.K. 2092.
 Angroy, A.M. 1902.
 Angst, W. 3374.
 Anisko, J.J. 2506, 3576, 3578.
 Aniskowicz, B.T. 2534.
 Anisman, H. 2237.
 Annau, Z. 1608, 4303, 4304.
 Ansell, S. 1805.
 Ansell, D. 282.
 Anthony, S.L. 3560.
 Antikainen, E. 2460.
 Antonova, L.V. 975, 4370.
 Antunes-Rodrigues, J. 4072, 794.
 Aoki, K. 3841.
 Aou, S. 2009.
 Apanasenko, Z.I. 601, 2981.
 Apfelbach, R. 396.
 Apfelbaum, M. 2114.
 Appel, J.B. 969.
 Applebaum, S. 4108.
 Applegate, C.A. 3758.
 Apps, P.J. 3832.
 Araie, N. 4123.
 Araujo Guedes, R.C. 1603.
 Aravich, P.F. 2034.
 Archer, A.L. 3969.
 Archer, T. 1827, 1990, 2956, 3953.
 Ardisson, J.L. 384, 1514.
 Aref, S. 2509.
 Arioglas, A. 774.
 Anita, M. 3049.
 Arino, H. 63.
 Armstrong, J.S. 1315.
 Armistage, K.B. 388.
 Armstrong, S. 4140.
 Arndt, S. 3352.
 Arneric, S.P. 3325.
 Arnold, A.P. 4397.
 Arnold, G.W. 2200, 2218.
 Arnold, S.J. 330, 646, 3799.
 Arnt, J. 795.
 Aron, C. 793, 3555.
 Aron, C. 2498.
 Ariagada, J.R. 591.
 Arriaga-Reina, R. 4290.
 Arruda, F. 971.
 Arsenault, M. 3488.
 Arsenault, R. 2168.
 Arunachalam, S. 3807.
 Arushanyan, S. 3217, 4382.
 Arvidsson, L.E. 2149.
 Asai, Y. 3049.
 Asaki, K. 3947.
 Ashmarin, I.P. 4370.
 Ashcroft, R. 1161.
 Ashton, D. 1994.
 Ashton, E.H. 3854.
 Asman, S.M. 145.
 Aspirrot, J. 306.
 Assenmacher, I. 904.
 Atak, J. 3810.
 Atalay, J. 4875.
 Atapattu, D. 2772.
 Atema, J. 2609, 3767.
 Atkins, N. 364.
 Atkinson, P.R. 1251.
 Atmp, G.W. 1698.
 Ator, N.A. 3941, 4298.
 Atrens, D.M. 4257.
 Atterwill, C.K. 4350.
 Atwood, J.L. 230.
 Au, W.W.L. 3085.
 Aubert, J. 4038, 4039.
 Aumay, Y. 3718.
 Aumes, W.J.P. 559, 815.
 Barnett, C. 2287.
 Aulakh, C.S. 3295.
 Averill, A.L. 1130.
 Avery, D.D. 945.
 Avilova, K.V. 4054.
 Ayres, J.J.B. 2944, 3949.
 Azcarate, J. 3866.
 Azuma, S. 2021, 4123.
 Babish, J. 3229.
 Baccelli, G. 753.
 Barrett, J. 4296.
 Barrett, J.E. 1026, 2073, 2173.
 Barrette, C. 3836.
 Barron, A.T. 1438.
 Barrow, B.C. 3641.
 Barrows, E.M. 291, 2720.
 Barry, S.H. 1878.
 Barshaw, D.E. 3767.
 Barsotti, D.A. 4326.
 Bartell, S.M. 3690.
 Barth, F.G. 1128.
 Barth, T.M. 4241.
 Bartholomew, G.A. 3802.
 Barthe, A. 2130, 3316.
 Bartlett, B.E. 1120.
 Bartlett, T.J. 1699.
 Bartmann, R.M. 3737.
 Barness, T.J. 1966, 4394.
 Barto, A.G. 1066, 1971.
 Bartus, R.T. 2980.
 Baryshev, V.A. 4033.
 Bashinski, H. 2659.
 Bass, M.B. 2138.
 Bastian, J. 3071, 3072.
 Baitschelder, P. 3592.
 Bateson, P. 2480, 3872.
 Bateson, P.P.G. 4495.
 Batter, D.K. 2167, 3889, 4311.
 Battisti, B. 720.
 Battur, V.A. 3217, 4382.
 Bauer, H.R. 1633.
 Bauer, J.A. Jr. 2455.
 Bauer, R.H. 3180, 4347.
 Bauer, S.E. 2455.
 Bauer, T.E. 2455.
 Baugh, T.M. 2569.
 Baum, M.J. 2175, 4412.
 Baumeister, A.A. 3628.
 Baumgaertner, J.U. 1429.
 Baumann, D. 2817.
 Baxter, D.J. 542, 2942.
 Baxter, J.R. 1544.
 Bayer, R.D. 1166.
 Bayev, K.V. 840.
 Beach, F.A. 3306.
 Beardsley, P.M. 4432.
 Beare, S.S. 4472.
 Beatty, G.J. 557.
 Beatty, W.W. 886, 4029.
 Beauchamp, G.K. 1178, 1180.
 Beaver, B. 4455.
 Beaver, B.V. 204, 1585, 2919, 3340, 3346, 3423, 3437, 3451, 3902, 4448, 4456, 4459, 4460.
 Beck, A.M. 2216.
 Becker, J. 595.
 Becker, P.H. 2466.
 Becker, R.F. 4305.
 Beckerton, P. 3045.
 Beckman, A.L. 2063.
 Becnel, J.R. 1506.
 Bedford, J.A. 1022.
 Beer, B. 2980.
 Beerwinkle, K.R. 1538.
 Beevers, M. 18.
 Behrends, P. 3982.
 Behrens, D.W. 2489.
 Beldier, D.L. 3723.
 Beiko, V.B. 2963.
 Beilhar, R.G. 1375, 3339.
 Beiswanger, C.M. 747.
 Bettinger, T.L. 2827.
 Bekoff, M. 1205, 2736.
 Belavadi, V.V. 2890.
 Bellesin, D.B. 997.
 Belitsky, D.L. 2531.
 Bell, J.A. 593.
 Bell, G.A. 4426.
 Bell, G.P. 406, 3736.
 Bell, P.D. 1131.
 Bell, W.J. 1843, 2256, 2269, 2316.
 Bell, W.D. 2176.
 Bellamy, W.P. 1123, 1685, 1697, 1726, 1765.
 Bellrose, F.C. 3017.
 Belosevic, M. 1528.
 Belova, T.I. 3158.
 Belz, W.D. 2176.
 Belyi, V.P. 2973.
 Ben-Eliahu, M.N. 116.
 Ben-Uria, Y. 521.
 Benedict, J.H. 1249.
 Benedict, J.O. 565.
 Bengtsson, B.E. 511.
 Bengtsson, H. 3588.
 Benhar, E. 4091.
 Benjamin, D.M. 313.
 Benjamin, P.R. 817.
 Benner, J.C. 3388.
 Bennett, C.A. 1420.
 Bennett, E.L. 575, 1828.
 Bennett, J. 207.
 Bennett, T.L. 4211.
 Bent, E.F. 2768.
 Bent, D. 1622, 2338, 3452, 3884.
 Benvenuti, S. 3013, 4048, 4058.
 Benz, G. 440, 2611.
 Berard, D.R. 1923.
 Bercey, M. 4312.
 Berendsen, H.G. 3310.
 Berg, H.C. 3843.
 Berg, S.L. 2011.
 Berger, J. 265, 3454.
 Berger, M. 3603.
 Berger, R.J. 766.
 Bergeron, J.-M. 2737.
 Berggren, U. 967.
 Bergin, M.E. 1932.
 Bergman, H.H. 2306.
 Bergondy, M. 1037.
 Bergquist, A. 4454.
 Berford, C.W. 115, 639, 2261, 2263.
 Berkowitz, L. 78.
 Berman, C.M. 2592, 2593.
 Berman, D. 798.
 Bermudez-Ratoni, F. 2065.
 Bernadi, M.M. 3072.
 Bernardin, G.L. 4376.
 Bernards, I.L. 891, 892.
 Bernasconi, S. 865, 2091, 2336.
 Bernays, E.A. 1142.
 Berner, A.M. 651.
 Bernstein, I.S. 1385.
 Bernidge, K. 1510.
 Berrill, M. 3488.
 Berry, H.K. 1954.
 Berry, R. 175.
 Berryman, A.A. 3000.
 Bersh, P.J. 3898.
 Bershadsky, B.G. 1572.
 Berthoz, A. 3129.
 Bertino, M. 1446.
 Bertness, M.D. 264, 279, 429.
 Bertolini, A. 3230.
 Berven, K.A. 151.
 Besch, E.L. 1924.
 Best, D. 1474.
 Best, L.B. 1310.
 Best, L.S. 2648.
 Best, P.B. 480.
 Best, P.J. 4194.
 Best, R.C. 386, 2487.
 Beugnon, G. 636, 1905.
 Beuvs, F.T. 2521.
 Beyer, C. 4176.
 Bhargava, V.K. 2105.
 Bhaskaran, M. 1392.
 Bhattacharya, A.K. 3295.
 Bhavsar, V.H. 1020.
 Bick, C.J. 175, 2698.
 Biben, M. 2917.
 Bibikov, S.I. 4033.
 Bick, E.I. 3414.
 Bider, J.R. 483, 1558.
 Biderman, D.D. 3742.
 Bidzinski, A. 970.
 Biederman, G.B. 557, 558, 3955, 3978.
 Bielajew, C. 4157.
 Bielert, C. 1340.

- Biennestock, E. 861.
 Biere, J.A. 2998.
 Bierley, R.A. 1807.
 Biemann, G.C. 3591.
 Bierzychudek, P. 2648.
 Bignami, G. 3246.
 Bidstein, K.L. 3816.
 Billman, G.E. 1766.
 Bing, P.M. 1037.
 Bing, J. 3124.
 Bingham, V.P. 3019.
 Birchard, G.F. 781.
 Bircher, J. 1961.
 Bird, D.M. 3540, 3718.
 Birik, J. 3924.
 Birkeland, C. 2681.
 Burkhead, T.R. 2476.
 Biron, C. 3438.
 Bizzazza, A. 2585.
 Bissinger, B.E. 1912, 4105.
 Bitter, N.A. 2366.
 Bitter, A. 1442.
 Bittman, M.E. 1646, 2962.
 Bittman, E.L. 184.
 Bittner, B.J. 3912.
 Bitzer, R.J. 2346, 3467.
 Boerne, K. 4454.
 Blaber, S.J.M. 3699.
 Black, K.R. 752.
 Black, S.L. 3438.
 Blackman, D.E. 1018, 1658, 1929, 2067.
 Blackshaw, J.K. 2217.
 Blackwell, J.W. 2673.
 Blackwell, L.A. 2111.
 Blaetgen, G. 3068.
 Blair, R. 3186, 4480.
 Blake, B.F. 746.
 Blake, P.H. 1096.
 Blake, R. 1880.
 Blake, R.W. 3041.
 Blakemore, R.P. 2992.
 Blampied, N.M. 2151.
 Blanchard, D.C. 1198, 2018.
 Blanchard, R. 2018.
 Blanchard, R.J. 1198, 3453.
 Bland, B.H. 2023.
 Blank, D.A. 3577.
 Blanton, F.L. 192, 4416.
 Blas, E.M. 2048.
 Blau, A. 883.
 Blavet, N. 3153, 4355.
 Blazis, D.E.J. 4353.
 Bleckmann, H. 3077, 3687.
 Blest, A.D. 2604.
 Blizard, D.A. 3147, 3363.
 Bloch, S. 4085.
 Bloch, S.A. 1623.
 Bloch, V. 868.
 Block, G.D. 3089.
 Block, M.L. 242.
 Bloem, K.A. 3406.
 Blom, R.J. 2542.
 Blom, J.G. 251.
 Blondeau, J. 686, 914.
 Blough, D.S. 4081.
 Blough, P.M. 4081.
 Blue, J.H. 4004, 4229.
 Blue, T. 1506.
 Blum, K. 3267.
 Blum, M. 2265.
 Blum, M.S. 27, 1189, 2261.
 Boag, D.A. 2358.
 Bobkova, N.V. 2223.
 Bobrovnikov, L.V. 2008.
 Boch, R. 3675, 4092.
 Boek, B.C. 3859.
 Bodnar, R.J. 3367.
 Bodnar, C. 2244.
 Boesch, H. 2244.
 Bogdanov, A.V. 809.
 Boggan, W.O. 2111.
 Boggs, D.F. 781.
 Bohus, B. 604, 2179, 3155, 3313, 3319.
 Boicoy, R. 1090, 1690.
 Boidron, J.N. 121.
 Boisserie, F. 978.
 Boivin, G. 3390.
 Bolander, D.L. 4324.
 Bokori, J. 4444.
 Boland, K. 1024.
 Bolles, R.C. 566.
 Bolten, A.B. 57, 3673.
 Boltz, R. 725.
 Bolz, J. 705.
 Bombace, J.C. 2944.
 Bombardier, C. 2136.
 Bonavita-Cougoudran, A. 1412.
 Bond, A.B. 1806.
 Bond, J.T. 1793, 3886.
 Bond, N.W. 1731, 3244, 3279.
 Bondy, S.C. 940.
 Bonnell, R.W. 4420.
 Boonij, C.H. 3382.
 Booker, R. 561.
 Boon, C.R. 495.
 Booney, R.C. 2502.
 Boonstra, R. 2858.
 Boppre, M. 2643.
 Borbely, A.A. 1942, 4144.
 Bordsch, G.D. 1122, 1124.
 Borden, J.H. 1883, 2638.
 Boren, J.L. 2079.
 Borgia, G. 127.
 Borms, R.L. 4306.
 Bossert, A. 1471.
 Bostock, E. 4317.
 Botez, M.I. 573.
 Botter, S.W. 3894.
 Bouchalova, J. 2279.
 Bouchon, R. 3887.
 Boudouresque, C.F. 274.
 Boughmy, M.J. 3404.
 Bouissou, M.F. 2548.
 Boulard, M. 2411.
 Boulou, C. 704.
 Bourassa, J.P. 320.
 Bourbonnais, D. 879.
 Bourland, G. 1673.
 Bourque, C. 4208.
 Bourne, M.E. 566, 2954.
 Bouyard, L. 954.
 Bouyard, P. 954.
 Bouyer, J.-J. 4204.
 Bouyer, J.J. 862.
 Bowden, D.M. 1096.
 Bowe, C.A. 4005.
 Bowen, R.A. 3868.
 Bowen, W.D. 237.
 Bowerman, R.F. 826.
 Bowers, M.A. 1423.
 Bowersox, S.S. 1111.
 Bowman, R.E. 873, 2684, 4326.
 Bowra, B.J. 3029.
 Bowyer, R.T. 2485.
 Boxall, P.C. 2525.
 Boyall, A. 3842.
 Boyd, E.H. 878, 4217.
 Boyd, E.S. 878, 4217.
 Boyesdon, G.M. 3175.
 Boyle, P.R. 3.
 Bozarth, M.A. 3273.
 Bozimo, H.T. 111.
 Brace, R.C. 54, 1188.
 Bracha, T. 2002.
 Brackett, D.J. 1696.
 Bracy, O.L. 3189.
 Bradley, D.C. 1162, 3399.
 Bradley, J.V. 1080.
 Bradley, R.A. 36, 1157.
 Bradoo, B.L. 3357.
 Bradshaw, C.M. 2161.
 Bradshaw, G. 1877.
 Brady, C.A. 1183.
 Brady, C.J. 4257.
 Brady, J.V. 2171.
 Brady, K.T. 3139, 3232.
 Brady, L.S. 3274.
 Brady, U.E. 3512.
 Braham, H.W. 3025.
 Braide, E.I. 1498.
 Brain, P.F. 1622, 1963, 2338, 3452.
 Brakha, V. 3998.
 Bramblett, C.A. 808, 3461.
 Bramlett, J.A. 3903.
 Brammer, G.L. 807.
 Branch, G.M. 1527.
 Branch, M.L. 1527.
 Branch, M.N. 1711, 3300, 4283.
 Brand, A. 1100.
 Brand, H.M. 1341.
 Brandes, J.S. 2028.
 Brannon, E.L. 647, 649.
 Brannjes, N.B.M. 3008.
 Braun, B.M. 3714.
 Braun, C.E. 3015.
 Braun, J.J. 1715, 1725.
 Braune, B.M. 2700.
 Brawley, S.H. 3656.
 Bree, M.P. 1025.
 Bray, R.N. 2670.
 Braza, F. 3866.
 Brazovskaya, F.A. 786.
 Bredart, S. 3359.
 Breden, F. 502, 3845.
 Bree, M.P. 1025.
 Breed, M.D. 3482.
 Bresse, G.R. 1039, 3179.
 Breitingner, E.R.P. 595.
 Bremer, H. 334.
 Bremer, R. 2017.
 Brenner, B. 4017.
 Brennan, J.F. 3193.
 Brennan, M.J. 3363.
 Brenner, N. 1778.
 Brenowitz, E.A. 233, 2307.
 Brett, L.P. 519.
 Breuning, S.E. 530, 533.
 Breitenbach, G.J. 2753.
 Brian, M.V. 1413.
 Brink, J. 4427.
 Bridger, W.H. 2154.
 Bridges, R.S. 1326, 4193.
 Briese, E. 2046.
 Briggs, A.H. 3267.
 Briggs, S.P. 304.
 Brighwell, W.S. 4310, 4325.
 Brit, R.W. 692.
 Britel, C. 2284, 3613.
 Brines, M.L. 4035.
 Brinks, J.S. 182.
 Brinslin, L.J. Jr. 2819.
 Brito, G.N.O. 3192.
 Britt, M.D. 3875.
 Britton, D.R. 2129.
 Britton, K.T. 2129.
 Britzlee, K.R. 2924.
 Broadhurst, P.L. 4365.
 Broce, A.B. 16.
 Brockmeyer, W.Y. 496.
 Brockmann, H.J. 376, 2810.
 Broda, H. 1838.
 Brodie, E.D. Jr. 1716, 2799, 2821.
 Brodie, M. 980.
 Brodie, R.E. 3238.
 Brogan, J.R. 1105.
 Brogan, J. 2180, 3600.
 Broitman, S.T. 4117.
 Bronson, F.H. 3429, 3571, 3575.
 Bronstein, P.M. 1194, 2323, 3530.
 Brooke, M.de. 1347.
 Brooks, R.J. 1564.
 Brooks, Z. 4006.
 Broom, M.J. 281.
 Brosset, A. 2687.
 Brosstus, R. 2259.
 Brothers, D.J. 2795.
 Brosseau-Gauzy, P. 137, 3500.
 Browner, P.S. 1066.
 Brown, B.L. 3907.
 Brown, C.A.J. 399.
 Brown, C.H. 3430.
 Brown, R. 1072.
 Brown, D.E. 2152.
 Brown, D.J. 350.
 Brown, D.M. 4164.
 Brown, D.R. 2125.
 Brown, H. 605, 3119.
 Brown, J.L. 167.
 Brown, J. 2927, 4475.
 Brown, K. 4361.
 Brown, L.E. 878, 4217.
 Brown, P.W. 3545.
 Brown, R.E. 4287.
 Brown, S.G. 1569.
 Brown, S.J. 3518.
 Brown, W.J. 1612.
 Brown, Z.W. 4208, 4268.
 Browne, L.E. 1425.
 Browne, R. 2772.
 Browning, J.V.H. 3463.
 Brownstein, M.J. 764.
 Brubaker, C.M. 4299.
 Brudzynski, S.M. 76, 995.
 Bruggers, R. 1316.
 Bruguerolle, B. 954.
 Brummer, H. 1321.
 Bruner, R. 823.
 Brunner, R.L. 1954, 3242.
 Bruno, J.P. 1621, 2549.
 Brunsard, P.F. 287.
 Bryan, R. 614.
 Bryan, T.E. 738.
 Bryant, E.H. 1277.
 Bryant, M.J. 3326.
 Bryant, P.D. 4434.
 Bryden, M.M. 180.
 Bryson, R. 1037.
 Bucenicks, P. 4378.
 Buchan, P.R. 102.
 Buchanan, D.B. 2679.
 Buchanan, S.L. 1753, 2936, 4249.
 Bucher, T.L. 3802.
 Buchholz, R.A. 1792.
 Buchler, E.R. 4064.
 Buckalew, L.W. 2189.
 Buckiewicz, J. 1795.
 Buckingham, G.R. 1420.
 Budzik, G.R. 1240, 1951, 2562, 2567.
 Budek, L. 1742, 3880.
 Buecher, R. 704.
 Buehler, M. 3595.
 Buelke-Sam, J. 4301.
 Buelthoff, H. 708.
 Burger, A.A. 3974.
 Buhot-Aversing, M.-C. 349, 3567.
 Buhot-Aversing, M.C. 65.
 Buhe, H.E. Jr. 256.
 Buissere, P. 861.
 Buissou, B. 4136.
 Bull, C.M. 1126, 3376.
 Bull, R.J. 4299.
 Bullis, J.E. 3561.
 Bullock, I.D. 2713.
 Bundy, D.A.P. 1931.
 Buntin, J.D. 2340.
 Burbaeva, G.Sh. 4370.
 Burch, L.S. 4308.
 Burchiel, K.J. 803.
 Burderton, H. 4136.
 Bures, J. 4015, 4024.
 Bursova, G. 4015, 4024.
 Burger, A.E. 2711.
 Burger, J. 162, 197, 1302, 2464, 2532, 2706, 2728, 2729, 3054, 3373.
 Burgess, J.W. 2349, 2353, 2359, 3142, 4282.
 Burghardt, G.M. 3859.
 Burke, D.B. 1227.
 Burkholder, W.E. 215, 1136.
 Burklund, K.E.A. 4323.
 Burley, N. 173, 4086.
 Burneister, F. 3354.
 Burnett, B. 4291.
 Burnett, G. 1361.
 Burns, B.D. 4205.
 Burns, F. 2747.
 Burns, J.J. 2759.
 Burns, R.A. 1679, 3948.
 Burns, R.J. 391.
 Burnside, B. 755.
 Burr, D.E.S. 4019.
 Burridge, R.G. 413, 881, 3229, 3268, 4248.
 Bursin, K.R. 1666.
 Burton, H.A. 4007.
 Burt, E.H. Jr. 700.
 Buschinger, A. 1259.
 Buschman, L.L. 447.
 Busmaeijer, W. 1587.
 Buster, P. 4204.
 Bush, R. 1610, 3251.
 Bushnell, P.J. 3179.
 Buskist, W.F. 1727, 1756.
 Busse, C. 213, 2554.
 Butcher, R.E. 1954, 3242.
 Butcher, S.H. 1008.
 Butcher, R.G. 2459, 3585.
 Butler, S.R. 619.
 Butterfield, J. 1519.
 Butterworth, G. 1928.
 Buxton, N.E. 352, 353.
 Buzaki, G. 869, 3900.
 Byers, J.A. 1135, 1149, 3776.
 Byers, S.M. 1107.
 Byrd, L.D. 2070, 3304.
 Byrne, B. 3644.
 Byrne, J.H. 4183.
 Byrne, W.L. 3113.
 Cabe, P.A. 2950.
 Cabelguen, J.M. 696.
 Caballero, J.E. 1603.
 Cadote, L. 4436.
 Caggliola, A.R. 3311.
 Cain, A.P.E. 2529.
 Cairns, D. 1304.
 Cairns, S.J. 2509.
 Calabian, M.J. 3772.
 Calasso, M. 921.
 Calder, L.D. 2117.
 Caldwell, D.F. 1734.
 Caldwell, G.S. 356.
 Caldwell, P.J. 2696.
 Caldwell, R.L. 425.
 Caler, R.S. 1105, 1675.
 Calfrum, P. 4040.
 Calhoun, S.W. 2827.
 Callahan, G. 1759.
 Callisto, J.R. 2490.
 Calloni, C. 4040.
 Calzabano, A.M. 2782, 3037.
 Calver, M.C. 2714.
 Carnago, L.A.A. 794.
 Carnazine, B. 2444.
 Cambefort, J.P. 1382.
 Cambefort, Y. 138.
 Cameron, E.A. 119.
 Cameron, R.D. 1105.
 Cameron, S.A. 1133.
 Camhi, J.M. 1906, 1977.
 Camilleri, J. 691.
 Cammaerts, M.C. 2634.
 Cammaerts, M.C. 1531, 2270, 2645.
 Cammaerts, R. 2634, 2645.
 Camp, T.H. 4481.
 Campagnoni, F.R. 1667, 1688.
 Campaigne, E. 3298.
 Campbell, A. 3302.
 Campbell, B.A. 1209, 2132, 2920.
 Campbell, C.S. 1349.
 Campbell, P.E. 544, 964, 1802.
 Campos, C.J.R. 1996.
 Campos, F.J. 1000.
 Canard, M. 2401.
 Candland, D.K. 4486.
 Cane, J.H. 2402.
 Cane, S.E. 1616.
 Cannon, C.E. 1472.
 Cannon, K.F. 1283.
 Canonic, P.L. 2179.
 Cantor, M.B. 2939.
 Capaldi, E.D. 545, 1517, 2937, 3896, 3925.
 Capaldi, E.J. 1704, 4003, 4014, 4022.
 Cape, L. 4450.
 Caplan, C.J. 3057.
 Caplan, M. 887.
 Cappelli, P. 2148.
 Cappelli, H. 2145.
 Capra, S. 1682, 1941.
 Capretta, P.J. 392, 1508.
 Caraco, T. 1467, 1470.
 Carayon, J. 131.
 Carcia, H.S. 598.
 Card, R.T. 9, 113, 2260.
 Cardinale, D.P. 963.
 Cardeo, A.B. 3210.
 Cardeo, B. 911.
 Carenzi, C. 1377.
 Carew, T. 2946.
 Carey, F.G. 471, 1595.
 Carey, M.P. 2082.
 Carey, R.J. 4243, 4265.
 Cargill, S.M. 1300.
 Carino, M.A. 3258.
 Carl, E.B. 2241.
 Carl, G. 152.
 Carla, M. 4040.
 Carlberg, U. 2319.
 Carleton, D.J. 2858.
 Carlin, E. 3954.
 Carlini, E.A. 1000, 2090.
 Carlson, A. 1297, 1481, 2701, 3813.
 Carlson, D.A. 825, 2274.
 Carlson, D.A. 111, 3385.
 Carlson, N.R. 2197.
 Carlsson, A. 2149.
 Carlsson, A.D. 1008.
 Carpenter, J. 2420.
 Carpenter, J.E. 1151, 1866, 2393, 3511.
 Carpenter, J.W. 1089.
 Carpenter, L.H. 3737.
 Carr, K.M. 4263.
 Carr, J.H. 3018, 4055.
 Carr, W.J. 2735, 3560.
 Carrasco, M.A. 1997.
 Carroll, G.M. 3024.
 Carroll, B.J. 1047, 1115.
 Carroll, J.B. 3643.
 Carter, J. 947.
 Carter, C.S. 1961.
 Carter, R.B. 3225.
 Cartwright, B.A. 3002.
 Caruso, V. 4306.
 Carvey, P. 3289.
 Cary, G. 377.
 Cary, P. 1172.
 Casey, K.L. 1073.
 Casey, T.M. 689.
 Casper-Irving, G. 1586.
 Caspi, T. 1754.
 Cassone, M.C. 3231.
 Castaldi, A.A. 4430.
 Castellani, S. 1012.
 Castellano, C. 996, 2112, 4479.
 Castellon, E.G. 2254, 2783.
 Castellucci, V.F. 820, 821, 2984.
 Castellan, R. 1536.
 Castillo, A.R. Jr. 3562.
 Castillo, M. 1928.
 Castonguay, T.W. 3752.
 Caudal, P.F. 1689.
 Catania, A.C. 1710.
 Catanzaro, C. 2340.
 Catchpole, C.K. 3416.
 Catley, G.P. 2849.
 Catterall, C.P. 2837.
 Causse, C. 290.
 Cavigliani, A. 1196.
 Cavalheiro, E.A. 1996.
 Cavalli-Sforza, L.L. 1063.
 Caven, N.H. 1104.
 Caza, P.A. 3879.
 Caza, P. 2054.
 Cederlund, G. 3429.
 Cernoch, J.M. 3628.
 Cervantes, F. 2492.
 Cervetto, L. 720.
 Cervo, R. 2345.
 Cesuglio, R. 1948.
 Chadee, K. 1528.
 Chaichenko, G.M. 3207.
 Chait, L.D. 2109.
 Chambers, A.P. 4469.
 Chambers, G.K. 4469.
 Chambers, K.C. 2511, 2513, 3561.
 Chamorovsky, L.T. 975.
 Chan, B.G. 295.

- Chan, S.H.H. 3976.
Chanasavili, M.M. 552.
Chance, M.R.A. 3644.
Chandler, R.J. 3408.
Chandola, A. 169.
Chandran, A.P. 2074.
Chang, L.W. 4318.
Chang, S.-S.P. 1502.
Chang, Y.-F. 3125.
Channin, P. 380.
Chant, D.A. 283, 284, 1399, 2606, 2607, 2608.
Chapin, J.K. 812.
Chapman, L.F. 2553.
Chapman, R.F. 1142.
Chapnick, S.D. 1529.
Chapuis, N. 4090.
Chari, N. 1874.
Charles Baker, M. 1162.
Charleson, S. 3875.
Charlton, R.E. 9, 2260.
Charman, L. 3919.
Chase, J. 1892.
Chase, M.H. 4230.
Chase, R. 1952.
Chattopadhyay, J.M. 3210.
Chattoneer, J. 497.
Chaturvedi, L.D. 832.
Chazov, E.I. 1989.
Chel, M. 3285, 4421.
Chebanov, N.A. 3531.
Chocko, S. 3922.
Chockley, D.M., Jr. 3700.
Choe, P. 1337.
Chelazzi, G. 2770, 4040, 4056.
Chellett, L.D. 3877.
Chen, J. 195.
Chen, J.-S. 1700, 3897, 4297.
Chen, J.S. 2922.
Chen, M.C. 822.
Chen, R.C. 442.
Cheney, C. 717.
Cheney, C.D. 3929.
Cheney, D.L. 1387, 2596.
Cheng, J.J. 2613.
Cheng, J.-T. 894.
Cheng, M.-F. 3533.
Cheng, X.N. 442.
Chenoweth, P.J. 182, 4449.
Cheresharov, L.P. 2988.
Chereshova, A. 2077.
Cherian, E. 626.
Chernoff, N. 951.
Cherry, J.A. 3847.
Chesher, G.B. 856.
Chew, G.L. 74, 882, 2015, 3199.
Chew, L. 37.
Chiba, Y. 1392.
Chiba, Y. 3106.
Chiel, H.J. 1500.
Chikadze, A.V. 1106.
Childs, G. 3103, 3452.
Childs, S.B. 4064.
Chiodo, L.A. 3311.
Chisholm, M.D. 17.
Chiszar, D. 733, 1444, 1445, 2659, 2856, 3678, 3987, 4104, 4106.
Chiszar, D.A. 2666.
Chitty, N. 2685.
Chivers, D.J. 3371.
Chivers, S.M. 1617.
Chivileva, O.G. 4214.
Chmurzynski, A. 4102.
Chmurzynski, J.A. 1548, 3001.
Chole, R.A. 1923.
Chretien, P. 978.
Christen, H. 1962.
Christensen, A.V. 952.
Christensen, M.T. 226.
Christensen, N.D. 3094.
Christensen, T.A. 825.
Christenson, R.K. 3314.
Christen, J.J. 2333.
Christie, D.A. 2721.
Christoffersen, G.J. 528, 2983.
Christy, M.E. 3284.
Church, J.D. 2193.
Church, R.M. 2969, 2972, 2975, 3999.
Cicci, T. 921.
Cicci, F. 871.
Cicogna, M. 3107.
Ciesielski, L. 4348.
Ciesielski, L. 793.
Ciofalo, V.B. 965.
Clancy, J.A. 1678.
Clancy, J.J. 1734.
Clapp, B.A. 3722.
Clarac, F. 1860.
Clark, A.B. 202.
Clark, C.R. 3329.
Clark, D.A. 2763.
Clark, D.L. 1447.
Clark, G.A. 1993, 4177.
Clark, K.L. 477.
Clark, L.D. 543.
Clark, W. 3702.
Clark, W.G. 4376.
Clark, W.P. 923.
Clarke, A. 469.
Clarke, J.D. 4140.
Clarke, J.D.W. 3232.
Clarke, M.R. 3605.
Claus, G. 1024.
Clausen, M.L. 1008.
Clavier, R.M. 4254.
Cleary, J. 2102, 2120, 3975.
Cleland, G.G. 1684, 1706, 2943, 3936.
Clemens, L.G. 186, 1041, 2182, 2500, 3146, 3323.
Clement, J.L. 7.
Clemente, C.D. 4230.
Clemento, A.J. 1031.
Clergeau, P. 2572.
Clifton, D.K. 4193.
Clifton, P.G. 1722, 1816, 3308, 3701.
Clocar, A. 3669.
Clobis, D.J. 4166.
Clove, F. 3153, 4355.
Coates, T.W. 3385, 3516.
Cobb, J.S. 1187.
Cobelli, D.A. 4160, 4212.
Cockcroft, V.G. 745.
Codd, E. 3113.
Coddington, J. 1395.
Coe, C.L. 195, 2240.
Coelho, A.M. Jr. 808, 3461.
Coenen, A.M.L. 767, 4256.
Cogan, J.L. 565.
Cofar, A.J. 4073.
Cogger, D.C. 1729.
Cogliatore, C. 1531.
Cohen, D.B. 768.
Cohen, D.H. 1981.
Cohen, D.J. 2167, 3170, 3889.
Cohen, E. 2047, 4463.
Cohen, J. 1317, 1326, 2524.
Cohen, J.S. 742.
Cohen, M. 2096.
Cohen, P.S. 1667, 1688.
Cohen, S.L. 1663, 1759.
Coil, J.D. 568.
Coimbra-Filho, A.P. 2766.
Colborn, D. 3364.
Cole, M.W. 565.
Coleman, C.D. 2215.
Coleman, D.A. Jr. 3907.
Coleman, G.J. 4140.
Coleman, W.R. 1736.
Colgal, P.W. 3804.
Colli, J.D. 4154.
Colli, J.C. 2829.
Collett, T.S. 3002.
Collier, G.H. 3722.
Collier, T.J. 3216.
Collin, N.G. 3061.
Collingsridge, G. 3163.
Collins, A.M. 57, 1129, 3673.
Collins, B. 377.
Collins, D.C. 1059.
Collins, J.P. 3991.
Collins, R.L. 4070.
Collins, W.B. 2868.
Collison, C.H. 119.
Colotta, V.A. 514.
Colpaert, F.C. 1790, 4264.
Colton, C.D. 3284.
Colvin, B.A. 2535.
Coner, C. 1448, 2012.
Commissaris, R.L. 2134, 2164, 2169, 4295, 4360.
Compton, A.W. 2446.
Comstee, H. 3413.
Concannon, J.T. 4011, 4366.
Conley, M.R. 2650.
Conner, D.A. 2310.
Conner, W.E. 1152.
Connor, H.A. 659.
Connor, R.C. 2581.
Connors, C.S.W. 3703.
Connors, P.G. 3703.
Connors, P.R. 88, 375.
Contel, N.R. 3221.
Cook, A. 1216.
Cook, F.R. 2663.
Cook, J.C. 2663.
Cook, M. 3971.
Cook, N.J. 3234.
Cook, R. 134, 710.
Cook, R.G. 1806.
Cook, R.M. 3652.
Cook, T.M. 972.
Cooke, F. 1300.
Cooey, B. 1855.
Cooley, A.R. 850.
Coombe, P.E. 4079.
Coombes, S. 1737, 3958, 3960.
Coombes, S. 3073.
Coon, D.J. 4121.
Coon, R.A. 1333.
Cooney, J.B. 3891.
Cooper, R.T. 1457.
Coons, E.E. 4263.
Cooper, A.J. 1202.
Cooper, J.A. 2198, 4229.
Cooper, J.F. 1916.
Cooper, R.J. 1158.
Cooper, S.J. 4330, 4361.
Cooper, T.B. 3027.
Cooper, W.E. Jr. 3686.
Cooter, J.M. 3039.
Copeland, J. 2274.
Copeland, R.L., Jr. 3295.
Copenhaver, C. 2652.
Coper, H. 4168.
Coppel, H.C. 1138, 1272.
Corbet, P.S. 2434.
Corbett, D. 4262.
Corbier, P. 2494.
Corbin, J.E. 2152.
Cordon, J.J. 4295.
Cornwell-Jones, C.A. 929, 2184.
Cornwell, P. 2033, 2056.
Corymborowski, B. 3096.
Cynalla, R.T. 3042.
Corredor, L. 1113.
Corso, C.R. 130.
Cort, P., Jr. 1122, 1124.
Cortopassi-Laurino, M. 3677.
Corwin, J.V. 2035.
Cos, R.G. 2349, 3142.
Costa, D.P. 1478.
Costa, G. 2782, 3037, 4290.
Costa, J.A. 1603.
Costantini, B. 3149, 4207.
Costanzo, G. 1742, 3880.
Costanzo, G. 3648.
Coster, J.E. 465.
Cote, M. 799.
Cotton, M.M. 1680, 1738, 1741.
Couch, J.V. 3991.
Cougouille, aufreiteau, B. 97.
Coulombe, D. 3215.
Coulson, J.C. 1519.
Coulson, R.N. 1238, 1263.
Courtney, S. 2392.
Courtney, S.P. 2392.
Coutant, C.C. 3094, 4078.
Coville, P.A. 1646, 2962.
Coval-Dunning, D. 3406.
Coveney, J.R. 4323.
Cover, D.J. 1238, 1263.
Cover, H.H. 389.
Covian, M.R. 402, 794.
Cowan, A. 2190, 4281.
Cowan, D.P. 1257.
Cowan, P.W. 3804.
Covey, A. 3061.
Cowling, D.E. 1291.
Cox, C.R. 3448.
Cox, J.K. 2977.
Cox, P.W. 4074.
Cox, W.M. 4226.
Coy, D.H. 949, 1338, 2156, 4363.
Coyle, F.A. 2889.
Coyle, I.R. 2016.
Crabbe, J.C. 3277.
Crabtree, M.S. 1802.
Cracknell, H. 4190.
Craddock, D.R. 2673.
Craig, L.L. 403.
Craig, J.V. 2206, 4447.
Craig, W. 3571.
Crain, G.J.S. 465.
Crain, B.J. 846.
Cramer, R.E. 3988.
Crankshaw, O. 224.
Crankshaw, O.S. 126.
Crawford, D.L. 472.
Crawford, M. 1200.
Crawford, M.L.J. 725.
Crawley, J.N. 3312, 4364.
Gregier, S.E. 1121.
Crenesse, D. 384, 1514.
Crespo, J. 3705.
Crews, R.B. 1537.
Crews, H. 3283.
Crews, D. 1034, 1293, 2444.
Crews, P. 459.
Crews, M.M. 1113.
Crine, A.F. 3359.
Crisp, E. 791.
Crisp, M.J. 2755.
Crisp, T. 3271.
Criswell, C.A. 2388.
Crimar, R. 322.
Croft, D.B. 245.
Crofton, K.M. 4299.
Crompton, R.C. 3017.
Cronin, P. 1352.
Cross, J.A. 3804.
Cross, S.H. 1006.
Crossland, G. 3754, 3945.
Crossman, A.R. 1984.
Crossman, E.K. 1650.
Crow, J.F. 3841.
Crow, T.T. 2959, 4334.
Crow, T.J. 4012.
Crowell, C.R. 2927.
Crozier, R.H. 3838.
Cruikshank, R.A. 1569.
Cruse, H. 682, 687, 688.
Crutchfield, D.V. 4238.
Crystal, M.M. 300.
Csernely, D. 2547, 3593, 3883.
Cubbage, J.C. 3026.
Culik, B. 431.
Cullen, J.M. 171.
Cummings, E.G. 1110.
Cunningham, C.L. 4475.
Cunningham, D.L. 3343.
Cuomo, M.C. 3767.
Curley, M.D. 4308.
Curtin, R.A. 98, 2595.
Curtis, C.E. 2413.
Curtis, L.A. 270, 1409.
Curzon, G. 3178, 4192.
Cutler, L. 3223.
Cybulski, R. 901.
Cymborowski, B. 3096.
Cynader, M. 3059.
Cypress, R.H. 413, 3229.
Cyrus, D.P. 3699.
Cytawa, J. 597.
Czikeli, H. 2307.
Czopf, J. 869.
Czuczwar, J. 2170.
Czuczwar, S.J. 4362.
D'Agincourt, L.G. 2355.
D'Agostino, G.M. 2541.
D'Amato, F.R. 3648.
D'Amato, M.R. 551, 1692, 1708, 1795, 1796, 2977, 3062.
D'Mello, G.D. 1092, 2101.
D'Udine, B. 2552, 3565.
De Prato, S. 347.
De Silva, A.T. 1603.
Daan, S. 2693.
Dabelsteen, T. 3410.
Dabrowska, B. 4484.
Dacanay, R.J. 3921, 3957.
Daedemans, J. 2219.
Dahlheim, M.E. 2339.
Dai, J.D. 21.
Dakkouni, M. 133.
Dale, R.H. 888, 1824, 4009.
Daleandro, M. 2336.
Dain, G. 4454.
Dalland, T. 1919.
Dallenne, G. 4379.
Dallman, P.F. 519.
Dalrymple-Alford, J.C. 3884.
Dalrymple, A.J. 1751, 1780.
Dalterio, S. 2130.
Dalton, L.D. 4235.
Daly, J.C. 243.
Daly, M. 3982.
Damber, J. 190.
Dambnova, S.A. 960.
Damjanovic, I. 959.
Daniel, M. 1597.
Daniel, R.E. 2448.
Dantzer, R. 1348, 3256, 3315.
Danyliute, G.P. 3080.
Daoust, M. 978.
Dapples, C.C. 136.
Darc, G.H. 1459, 2671.
Dargie, C.M. 2065.
Darlington, P.J. Jr. 2874.
Das, G.D. 4172.
Daschersky, B.A. 596.
Dashedwood, M.R. 3145.
Dauer, D.M. 258.
Dautov, S.S. 263, 277.
Davenport, J.C. 1424, 4068.
Davey, G.C.L. 1683, 1706, 2943, 3936.
Davey, K. 3955.
Davey, R.B. 1245.
David, C.T. 3052.
David, S. 4410.
Davids, C. 2612.
Davidson-Codjoe, M. 3923.
Davidson, J.M. 195.
Davidson, T.L. 545, 1517, 2937, 3896.
Davies, A.H. 630, 676.
Davies, J. 1817, 4466.
Davies, J.A. 906.
Davis, D. 3606.
Davis, F.C. 4139.
Davis, H. 1640.
Davis, H.N. 964.
Davis, H.P. 1828.
Davis, J.E. 357.
Davis, J.L. 2077.
Davis, J.N. 412.
Davis, J.R. 3749, 3793.
Davis, K.L. 990.
Davis, L.G. 4364.
Davis, M.A. 681, 1862.
Davis, N. 2038.
Davis, P.E. 357.
Davis, R.E. 1952, 2196, 4352.
Davis, R.K. 2530.
Davis, R.W. 1478, 1496.
Davis, S. 2764.
Davis, S.F. 1679, 2107, 3903, 3948, 3997, 4122.
Davis, S.J. 1888.
Davis, W.J. 3471.
Davis, W.M. 1022.
Davison, G.W.H. 3764.
Davison, M. 3919, 3994.
Dawson, J. 2208.
Dawson, N.J. 737.
Dawson, R.D. Jr. 3297.
Dayton, A.D. 358, 1482, 4447.
De Acetis, L. 3246.
De Aguiar, J.C. 2162.
De Almeida Correia, M. 2789.
De Almeida, J.R. 2877.
De Almeida Camargo, L.A. 402.
De Bellocchio, S. 4198.
De Bruin, R. 251.
De Castro, J.M. 401.
De Catanzaro, D. 1197, 2177.
De Feudis, F.V. 4355.
De Freitas, C. 4.
De Gori, N. 834.
De Greef, W.J. 2493.
De Haven, D.L. 4315.
De Jong, W. 4156.
De Jonge, F. 3456.
De Juan, E. 3705.
De Kloet, E.R. 3313.
De Kock, L. 1494.
De L. Brooke, M. 2383.
De Lourdes, M. 2789.
De Luca, G. 4218.
De Ryck, M. 894.
De Sarro, G.C. 4218.
De Souza, H. 937.
De Turckheim, M. 3603.
De Vita, J. 2777.
De Wied, D. 3155, 4156.
De Wilde, P.A.W. 2775.
De Witte, P. 3159, 4229.
De S. 34.
Deakin, J.F.W. 3145.
Dean, J.M. 1294.
Dean, K.F. 2100, 3248.
Dean, P. 889, 3185, 3202, 4267.
Dean, R.L. III. 1989.
Deaning, M.E. 3300, 4283.
Debart, G.L. 115, 639.
DeBauche, B.A. 727.
DeBruin, L.L.M. 61.
Decamps, C. 2264.
DeCola, J.P. 1735, 2246.
Decoux, J.P. 3617.
DeFeudis, F.V. 3153.
DeGabelle, R. 2205.
DeGee, A.A. 407.
DeGn, J.H. 48.
DeHaven, D.L. 4293.
DeHaven, R.W. 354.
Deich, J.D. 1659.
Deleane, A. 316, 2656, 3668.
DeLillo, L. 3267.
DeLianne, D. 104.
DeLong, M.J. 368.
Dekker, I. 3165.
Del Bo, A. 75.
Del Rio, J. 523.
DeLallo, L. 3267.
Delattre, S.W. 2156.
Delay, E.R. 741.
Delifino, G. 4040.
Delibes, M. 379.
Delius, J.D. 4402.
Delizio, R. 1103, 1379.
Delia-Ferra, M.A. 394, 2066, 3753.
Deluzarche, F. 2020.
Demeneix, B.A. 1044.
Demeter, B.J. 2893.
Demong, N.J. 3472.
Dempster, A. 3254.
Denton, V.H. 1949, 3132.
Denti, R. 212, 1378, 1742, 3362, 3559, 3880.
Denno, R.F. 1344.
Denny, M.R. 1793, 3886.
Denny, M.W. 675.
Denton, D.A. 4232.
DePaulo, P. 1672.
DePorteure, H. 3150.
Derby, C.D. 2609.
DeRotte, A.A. 4414.
Deriz, D.G. 3880.
DesGranges, J.-L. 2699.
Desjardins, C. 3554.
Desmond, J.E. 3950, 4233.

- Deas-Beech, N. 1822.
 Dessi-Fulgheri, F. 2588, 4411.
 Deustephano, D.B. 3512.
 Detmar, P.W. 3265.
 Deutcher-Klein, N. 1653.
 Deutsch, H.M. 1189.
 Deutsch, J.A. 395.
 Deutsch, S. 4440.
 Devaiah, M.C. 2381.
 DeVaney, J.A. 1538.
 Devanport, J.A. 885, 1998.
 Devenport, L.D. 885, 1998.
 Deviche, P. 2482, 3309, 4401, 4402.
 DeVietti, T.L. 1636, 2055, 3966.
 Devine, A. 3541.
 DeVito, W.J. 1745.
 Dewar, W.A. 373.
 DeWied, D. 1056.
 Deys, P.B. 2072.
 Dewsbury, D.A. 1322, 1325, 1332, 1573, 3486, 3569.
 Dhamdhere, S.V. 2435.
 Dhawan, B.N. 2971.
 Dhumal, V.R. 1020.
 Di Carlo, B.S. 3695.
 Diakow, C. 150.
 Diamante, J.M. 1566.
 Diamond, M.C. 3154.
 Dias, R.D. 1013, 1997.
 Dick, T.A. 1528.
 Dickens, J.C. 1285, 2261.
 Dickler, R. 2026.
 Dickman, A. 3901.
 Dickson, E. 1084.
 Dickler, V.E. 684.
 Dietelien, F. 2742.
 Diggles, W.A. 2188.
 Dill, L.M. 55, 1221.
 Dill, R.E. 2011.
 Dilworth, M.J. 3029.
 Dinar, R. 4463.
 Diodonisi, L.D. 634, 638, 642.
 Dineen, J. 3209.
 D'Nicolaantonio, R. 4202.
 Dinisnoor, J.A. 1773.
 Dinstantley, D.J. 454.
 Dintcheff, B.A. 1610, 3251.
 Dittami, J.P. 4400.
 Dittich, W. 1229.
 Dixon, J. 4171.
 Dixon, J.E.W. 3713.
 Dixon, M.S. 617.
 Dixon, A.F. 208.
 Dizinno, G. 1182.
 Dizon, A.E. 692, 4041, 4045.
 Dlabac, A. 3164.
 Dmtrieva, L.P. 3056, 3815.
 Do Amaral Filho, B.F. 2406.
 Dobrakovova, M. 3158.
 Dobrosky, M. 1385.
 Doby, F.J.K. 926.
 Dodge, A.M. 886.
 Dodson, J.J. 648.
 Doering, H.K. 1398.
 Doerr, P.H. 1968.
 Doving, K.B. 1919.
 Dolanich, G.P. 2500, 3146.
 Doherty, D. 4016.
 Doherty, J.A. 3377.
 Doherty, P.C. 3316.
 Dole, J.W. 1449.
 Dolinsky, Z. 3268.
 Dolinsky, Z.S. 413, 3229.
 Dolisi, C. 384, 1514.
 Domoney, A.M. 4207.
 Domino, J. 3933.
 Domjan, M. 1749.
 Donadio, M. 1960.
 Donohue, J.W. 2197, 3904, 3991.
 Donovick, P. 413.
 Donovick, P.J. 881, 3229, 3268, 4248.
 Doonan, J.M. 1278.
 Dooly, D.J. 1096.
 Dooling, R.J. 4109.
 Dorr, L.J. 3519.
 Dorris, R.L. 2011.
 Dorsa, D.M. 1046.
 Doty, R.L. 4111.
 Dougherty, G.G. 97, 985.
 Dougherty, J. 3276.
 Douglas, M.E. 403.
 Douglas, W.A. 467, 780.
 Dourish, C.T. 4195, 4330.
 Doving, K. 4112.
 Dowling, R.V. 1550.
 Dowler, R.C. 2503.
 Downs, D.A. 4332.
 Downes, A.E. 4202.
 Doyle, R. 2886.
 Drago, F. 2179, 3319.
 Drake, W.A. 1835.
 Drake, W.E. 323.
 Draper, H.H. 1488.
 Drewes, C.D. 1976, 3137.
 Drewett, R.F. 189.
 Drewien, R.C. 1487.
 Drows, D.R. 3877.
 Driscoll, J.W. 2374.
 Driscoll, C.D. 4297.
 Drucker-Colin, R. 3111.
 Drugan, R.C. 3972, 4477.
 Drummond-Davis, N.C. 2605.
 Drummond, P.C. 3370.
 Du Merle, P. 2264.
 Du P. Bothma, J. 3756.
 Duarte, F.A.M. 2227.
 Dubach, M.F. 1096.
 Dubas, F. 3.
 Dubin, R.E. 3806.
 Dubose, C. 3746.
 Duda, P.L. 148.
 Dudeck, M.M. 2107.
 Dudley, C.A. 1339.
 Dudzinski, M.L. 3350.
 Duerr, J.S. 3844.
 Duffy, D.C. 364.
 Duffy, A.M. 37, 3546.
 Dugan, B.A. 3859.
 Dukelow, W.R. 1227.
 Dumortier, B. 4184.
 Dumawa, T.N. 3819.
 Dunbar, E.P. 2582.
 Dunbar, I. 3595.
 Dunbar, R.L. 2582.
 Duncan, I.J.H. 4467.
 Duncan, N. 3707.
 Duncan, P. 2208, 3450.
 Duncan, P.C. 1727.
 Duncan, P.M. 2103, 3234.
 Duncan, R. 2174.
 Dunderski, T. 69.
 Dunsmuir, K.M. 2756.
 Dunlap, W.P. 499, 2924.
 Dunn, A.J. 2135, 4206, 4213.
 Dunn, P.D.C. 559, 815.
 Dunnett, S.B. 3195.
 Dunson, W.A. 460.
 Dunsany, S. 3490.
 Durand, J.P. 4107.
 Durbin, A.G. 346.
 Durbin, E.G. 346.
 Durkovic, R.G. 4201.
 Dussault, G.V. 355.
 Duvall, D. 3294, 3614.
 DuVillard, X.D. 3084.
 Dworkin, S.I. 1711.
 Dyban, A.P. 3850.
 Dyer, F.C. 3006.
 Dyer, R.S. 4312, 4313, 4316, 4317.
 Dyzek, A. 3811.
 Eason, R.G. 1972.
 Eastzer, D.H. 1163.
 Eaton, G.W. 79, 3460.
 Eaton, R.C. 1914.
 Eaton, S.W. 2541.
 Eberhart, W.G. 1190, 1523, 2781.
 Eberhart, J.A. 3573.
 Eberly, L. 4182.
 Ebermann, E. 2433.
 Ebner, D.L. 1618, 2957.
 Eccles, C.U. 4303, 4304.
 Echandia, E.L.R. 4117.
 Eckenrode, C.J. 129.
 Eclancher, F. 580.
 Economopoulos, A.P. 2415.
 Edgerly, J.S. 2793, 3794.
 Edwards, C.A. 587, 2964.
 Edwards, D. 1334.
 Edwards, G.L. 893.
 Edwards, O.A. 1815.
 Edwards, W.P. 718.
 Evenhuis, N.L. 108.
 Eremova, T.M. 786.
 Eggers, D.M. 2674.
 Eguchi, K. 1308.
 Ehler, D. 3352.
 Ehret, G. 47, 736.
 Ehrhardt, W. 2566.
 Ehrlich, A.H. 3616.
 Ehrlich, P.R. 3616.
 Ehrman, L. 225.
 Ehrman, R.N. 554.
 Eichelman, B. 1953, 2022, 3176.
 Eickworth, G.K. 86, 1535, 2420, 2437.
 Eide, S.H. 3735.
 Eimon, D.F. 1617.
 Eisenberg, J.F. 790.
 Eisenberger, R. 1703.
 Eisenbrey, A.B. 2679.
 Eisenstein, E.M. 2075.
 Eisner, L.A. 2836.
 Eisner, T. 1152.
 Eiss, I. 1912.
 Elgar, M.A. 2837.
 Elias, M. 2185.
 Eliasson, M. 2921.
 Elisabetsky, E. 1996.
 Elkinton, J.S. 1425.
 Ellen, P. 1805, 4016, 4017.
 Ellerbrock, G. 1200.
 Ellinger, E.G. 4101.
 Ellingson, O.L. 718.
 Ellington, R.J. 777.
 Ellins, S.R. 3988.
 Ellinwood, E.H. Jr. 985, 2204.
 Elliott, C.J.H. 1934.
 Ellis, S.B. 3602.
 Ellman, G. 3223.
 Elner, R.W. 2778.
 Elomaa, E. 769.
 Elstein, K. 2031, 2043.
 Elston, S.F. 3267.
 Elwin, R.L. 1512.
 Elwood, R.W. 1350.
 Emery, A.R. 466.
 Emien, J.T. 368.
 Emien, S.T. 2555, 2556, 3472.
 Emmens, R.L. 10.
 Emmerich, D.S. 730.
 Emmerson, R.Y. 2055, 3966.
 Enda, N. 1134.
 Enders, P. 1050, 1051, 1052, 1990.
 Engel, J. 967, 4319.
 Engellennner, W.J. 881, 4248.
 Engstrom, P. 4030.
 Engstrom, M.D. 2503.
 Enns, M.P. 4488.
 Enns, M.P. 2082.
 Enomoto, T. 193.
 Epple, G. 244.
 Epstein, R. 719.
 Epstein, A.N. 2869, 3602.
 Erdelen, M. 2466.
 Erickson, C.J. 3550.
 Erickson, D.G. 2156.
 Eriksson, L. 4407.
 Erker, H.G. 1930, 3092.
 Ermakova, E.V. 596.
 Ernst, C.H. 3526.
 Ernsat, C. 2255.
 Erskine, D.J. 1561.
 Ervin, G.N. 1002.
 Esgandarian, G.E. 1683.
 Escher, R.J. 2855.
 Esposito, F. 1235.
 Esposito, R.U. 958, 2001.
 Esselmont, R.J. 3326.
 Estep, D.Q. 4438.
 Estep, K. 2856.
 Esterly, S.D. 3082.
 Eigen, A.M. 3322.
 Eigenberg, A. 2147, 4115.
 Ettinger, A.O. 3549.
 Ettinger, R.H. 1642, 1661.
 Ettinger, G. 50, 598.
 Eucher, M.J. 30.
 Evans, H.E. 3611.
 Evans, H.L. 3254.
 Evans, R.M. 2289, 3708.
 Evans, S.M. 4293, 4315.
 Eveleigh, E.S. 283, 284, 1399, 2606, 2607, 2608.
 Evershed, R.P. 2270.
 Eversole, A.G. 261.
 Ewald, P.W. 94.
 Ewert, J.P. 1978.
 Ewing, A. 2876.
 Ewing, M. 4118.
 Ewing, R.M. 258.
 Extance, K. 3995, 4328.
 Faaborg, J. 505.
 Fabre-nys, C. 2491.
 Fabre, L. 1338.
 Fabregue-Bergier, P. 954.
 Fabritius, M. 3383.
 Fabritius, M. 3383.
 Fadda, F. 774.
 Fadeev, Yu.A. 2008.
 Fadem, B.H. 3328.
 Fadeyev, Y.A. 3534.
 Faelt, B. 3589.
 Fagerstone, K. 2762.
 Fagerstone, K.A. 2758.
 Fahey, G.C. Jr. 2152.
 Fahrenbruch, C.E. 1629.
 Faingold, C.L. 740.
 Fairall, N. 4114.
 Fairall, L. 149.
 Fales, H.M. 2265.
 Falk, J.L. 3851.
 Falkenborn, Y. 938.
 Falls, J.B. 174, 2355, 2361.
 Fancy, S.G. 2860.
 Fanelli, R.J. 881.
 Fanselow, M.S. 2113, 3924.
 Fantino, E. 1758, 1769.
 Faradji, H. 1948.
 Faratinos, R.C. 392, 1508.
 Farina, A. 2731.
 Farner, D.S. 2471.
 Faro, S.H. 104.
 Farr, C.A. 3512.
 Farrar, D.B. 327.
 Fass, B. 405, 1184.
 Fattu, J.M. 4063.
 Faulstich, G.W. 1258.
 Faulstich, J. 1123.
 Faure, J.M. 4462.
 Faure, J.M. 501, 2883, 3338, 3342.
 Fauch, K.D. 2826.
/>
 Fauschini, D.L. 215.
 Faustman, W. 986.
 Faustman, W.O. 991.
 Fazio, J.K. 2241.
 Fechter, L.D. 1608.
 Feder, H.H. 1301, 1365.
 Feder, H.M. 3799.
 Feder, M.E. 3797.
 Fedosenko, A.K. 3577.
 Feer, H. 1571, 4209.
 Feigenbaum, J. 4343.
 Fekete, M. 579, 930.
 Felbabel, H. 499.
 Feldman, H.A. 2342.
 Feldman, M.W. 1063.
 Feldman, R.M. 1263.
 Fell, R.D. 317.
 Felsenstein, J. 1060.
 Fenner, D. 3911.
 Fenton, M.B. 390, 406, 3740.
 Ferak, J.M. 609.
 Ferguson, D.G. 533.
 Ferguson, M.M. 1583, 2882.
 Fernandes, D.M. 2969.
 Fernandez-Guasti, A. 4176.
 Fernandez, R.C. 2156.
 Fennell, J.C.R. 3178, 4192.
 Ferran, F. 4373.
 Ferreira de Souza, S.C. 2657.
 Ferri, S. 4290.
 Ferron, J. 320.
 Fertylo, K. 2315.
 Fetterman, J.G. 1652, 1662.
 Feustle, W.A. 3166.
 Feyer, A.M. 1702.
 Fiaschi, V. 4048.
 Fiashi, V. 6653.
 Fibiger, H.C. 933, 2095, 2118.
 Fiedler, J. 2160, 3294, 4258, 4346.
 Ficker, M.S. 2295.
 Field, S. 1617.
 FIELDS, M.A. 3402.
 Figler, M. 3223.
 File, S.E. 939, 4167.
 File, S.E. 895.
 Fine, M.L. 4187.
 Finger, S. 4239.
 Fink, E. 3268.
 Finkenstaedt, T. 3181.
 Finkelstein, S. 905.
 Finkelstein, H. 1626.
 Finlay, B.A. 1568.
 Finlayson, L.H. 2418.
 Finnstrom, O. 4441.
 Fischbach, K.F. 690.
 Fischer, B. 4092.
 Fische, A.G. 261.
 Fischer, G.J. 963, 1888.
 Fischer, K. 1259.
 Fischette, C.T. 4406.
 Fishelson, L. 3030.
 Fisher, A. 3127.
 Fisher, B.R. 550.
 Fitts, D.A. 1504.
 Fitzgerald, B.M. 1225.
 Fitzgerald, M. 4356.
 Fitzgerald, R.D. 1619, 1792, 4119.
 Fitzgerald, S. 1691.
 Fitzgerald, T.D. 2793, 3794.
 Fitzpatrick, J.W. 1484.
 Flack, H.G. 3152.
 Flaherty, C.F. 1678, 3922.
 Flak, P. 2210.
 Flannely, K.J. 1212.
 Flannery, J.W. 807.
 Fleischer, S. 2026.
 Fleischer, S.F. 1353, 1626.
 Fleischman, B.L. 1067.
 Fleming, A.S. 1337.
 Fleming, D. 208.
 Fleming, D.E. 1727, 1756.
 Fleming, T.H. 1366.
 Fletcher, A. 3269, 4381.
 Fletcher, D.J.C. 27, 1537.
 Fletcher, R.M. 1266.
 Flexner, A.J. 2192.
 Flickinger, E.L. 653.
 Flood, O.R. 4403.
 Fluogel, W. 1279.
 Fluhray, S.J. 2007.
 Foa, A. 1852, 3022, 4048.
 Fobes, J.L. 2142, 3174, 4170.
 Focardi, S. 4056.
 Fogassi, L. 4220.
 Fogleman, J.C. 122, 1839, 2629.
 Fokin, S.J. 1600.
 Foklers, E. 1770, 2985.
 Folmar, L.C. 2673.
 Folisch, D.W. 4466.
 Foltn, R.W. 1763, 3962.
 Folz, D.W. 183.
 Fomin, B.A. 3213.
 Fonberg, D. 1705.
 Fonberg, E. 1014.
 Foote, B.A. 1401.
 Forand, K.J. 3877.
 Forbes, A.T. 745.
 Forbes, D.T. 2940.
 Ford, H.A. 1476.
 Ford, J. 478.
 Ford, J.J. 3314.
 Fordyce, D.J. 3086.
 Fore, D.D. 2932.
 Forell, J. 3850.
 Forester, D.C. 2522.
 Formanowicz, D.R. Jr. 287, 1716, 2799, 2821.
 Forrest, T. G. 2258.
 Forster, L. 1405.
 Forsythe, A. 220.
 Forsythe, T.G. 4069.
 Fortune, D.B. 3149.
 Forward, R.H. Jr. 301.
 Foscolo, M. 4117.
 Foscolo, G. 3882.
 Foster, D. 292.
 Foster, K. 3161.
 Foster, M.S. 1313, 2747, 3615.
 Foster, R.G. 4080.
 Foster, W.A. 1555, 3781.
 Fotter, H. 2152.
 Fout, D.B. 1677.
 Fournant, E. 1992.
 Fouts, R.S. 3606.
 Fowler, H.G. 2558, 3393.
 Fowler, S. 986.
 Fowler, S.C. 541, 991.
 Fox, P.E. 3439.
 Fox, P.E. 3935.
 Fox, R.R. 788.
 Fox, S.F. 1220.
 Fraker, M.A. 667, 3025.
 Fraley, S.M. 1631, 1825.
 Frances, H. 1015.
 Francesconi, W. 4083, 4220.
 Franchina, J.J. 1768, 3984.
 Francis, A.M. 3817.
 Francis, D.L. 1619.
 Francis, E. 1040.
 Francoeur, A. 1259.
 Francouer, G.R. 4166.
 Frank, D.H. 1327.
 Frank, H. 2979, 3633.
 Frank, M. 1351, 1703.
 Frank, M.G. 2979, 3633.
 Frank, R.A. 2052.
 Frankel, A.R. 2178, 3324.
 Frankel, R.B. 2992.
 Franklin, K.B. 4269.
 Franklin, R.T. 3787.
 Frankova, S. 524.
 Franks, E.C. 476, 2540.
 Frase, B.A. 19.
 Fraser, A.H.G. 1221.
 Fraser, J. 2316.
 Frazier, B.D. 1428, 1430.
 Frazier, J.L. 1249, 1867.
 Fredericksen, K. 528.
 Fredrickson, J. 4454.
 Free, J.B. 222.
 Freed, A.N. 3680.
 Freed, W.J. 866.
 Freedman, N.L. 2050.
 Freedman, L.S. 3147.
 Freeland, W.J. 1230, 1388, 2797.
 Freeman, R.D. 3128.
 Freeman, W.J. 4188.
 Fregnac, Y. 861.
 Freidberg, A. 3521.
 Freid, R. 1384.
 French, J. 4211.
 French, J.A. 2234.
 French, T.W. 3688.
 Frey, E. 3695.
 Frey, H.A. 4431.
 Frey, H. 494.
 Frey, R.W. 3852.
 Frey, T.J. 4087.
 Friedman, E. 3237.
 Friedman, M.I. 2549.
 Friedman, R. 1957.
 Friend, W.G. 2649.
 Frischkreht, H. R. 941.
 Fritts, S.H. 3477.
 Fritts, T.H. 3523.
 Fritts, S.R. 2811.
 Froeschner, R.C. 1433.
 Frohman, C.E. 1734.

- Prolov, A.N. 2422.
 Frost, R.A. 2475.
 Frost, S.K. 409.
 Frye, G.L. 1729.
 Fuccillo, R. 3648.
 Fuchs, E. 657.
 Fuchs, S. 2543.
 Fuchs, V. 4168.
 Fuchs, V.M.E.A. 4134.
 Fudge, J.A. 267.
 Fuhrmann, G. 1074.
 Fujii, M. 2951.
 Fujioka, M. 1298.
 Fujita, O. 3358.
 Fujiwara, M. 1007, 2945.
 Fuke, S. 3689.
 Fukuda, M. 872.
 Fullard, J.H. 2806.
 Fuller, R.W. 4369.
 Fuller, T.K. 3475.
 Fumagalli, R. 4173.
 Funakoshi, K. 2486.
 Fundakowski, R. 4436.
 Funk, E. 1369.
 Furedy, J.J. 557, 558, 3978.
 Furusawa, R.W. 359.
 Furukawa, T. 848, 961.
 Fuster, J.M. 3180.
 Fuston, J.M. 728.
 Fuwari, E. 1512.
 Fux, K. 1990.
 Gabel, J. 569.
 Gabel, M. 3161.
 Gadia, E.S. 1267.
 Gadzama, N.M. 111.
 Gaetner, K. 3562.
 Gaftan, E.A. 1817, 4466.
 Gage, F.H. 4200.
 Gagne, J.A. 1238, 1263.
 Gaillard, F. 4186.
 Gatto, J. 919, 2191, 4252, 4253.
 Galashina, A.G. 809.
 Gala-Luong, A. 2551.
 Gafel, B.G. Jr. 1625, 1751, 1780.
 Galileo, M.H.M. 438.
 Galina, Z.H. 4480.
 Gallacher, M. 4317.
 Gallagher, M. 928, 2110.
 Galles, E.L. 563.
 Gallist, J.R. 205, 206, 1894.
 Gallist, G.G. Jr. 3837.
 Gallup, G.G. Jr. 602, 1485, 2079.
 Galun, R. 116.
 Gamal-El-Din, L. 1963.
 Gambanian, L.S. 2019.
 Gamble, S.J. 968.
 Gamba, G.J. 221, 2426, 3466.
 Gammon, D.M. 2212.
 Gandelman, R. 1207, 1208, 2183, 2334, 2341, 3851, 4292.
 Gander, P.H. 750, 751.
 Gandolfi, G. 3075.
 Gangwar, P.C. 4452.
 Gano, K.A. 2751.
 Ganten, D. 411.
 Garattini, S. 865, 2091.
 Garber, B. 4300.
 Garbutt, A. 2577.
 Garcia-Sanchez, J. 3968.
 Garcia, J. 4154.
 Gardner, K.A. 1069.
 Gardner, M.B. 2668.
 Gardner, M.L. 1030, 1714.
 Garbani, A.A. 2019.
 Garner, J.A. 510.
 Garretton, M. 344.
 Garriques, A.M. 2054.
 Garry, S. D. 279.
 Garshelis, D.L. 2854.
 Garstka, W.R. 1293, 2444.
 Garton, R.R. 1563, 3805.
 Gartshore, R.G. 1564.
 Gary-Bobo, E. 861.
 Garton, J. 523.
 Gasc, J.P. 1876.
 Gaskin, D.E. 2700.
 Gastal, H.A.O. 438.
 Gaston, L.K. 14, 1863.
 Gatz, A.J. Jr. 2445.
 Gaudi, D. 3562.
 Gaulf, F. 2120.
 Gause, E. 4395.
 Gauthier, M. 611, 2044.
 Gauthier-Hion, A. 498.
 Gauner, J.-P. 498.
 Gautier, J.-Y. 498.
 Gavio, M. 1412.
 Gavish, B. 3407.
 Gavish, L. 191, 3409.
 Gay, P.E. 543.
 Gay, R.L. Jr. 3877.
 Gazzara, R.A. 1955.
 Geduldig, H.L. 1224.
 Geer, S.F. 455.
 Geisler, T. 2876.
 Geodin, T.A. 2716.
 Geiger, G. 704, 713.
 Geiger, V.B. 1573.
 Geiselman, P.J. 397.
 Geissler, B. 2060.
 Geist, V. 2863, 3627.
 Gejman, P.V. 905.
 Gelbaum, L.T. 1189.
 Geller, E. 807.
 Geller, E.S. 1675.
 Geller, I. 3259, 4395.
 Gemba, H. 4391.
 Genoud, D. 3541.
 Genoud, M. 494.
 Gentile, M.J. 373, 3183, 3341.
 Gentry, C.R. 296.
 Gentry, J.B. 1424.
 Gentsch, C. 1571, 4209.
 George, G. 3153, 4023.
 Gerall, A.A. 908.
 Gerber, C.R. 4254.
 Gerhardt, H.C. 2448.
 Gerhardt, S. 2115, 4266, 4275.
 Gerling, D. 2568.
 German, D.C. 2010.
 German, R. 806.
 Gerritsen, J. 3773.
 Gervais, R. 4222.
 Gescheider, G.A. 4125.
 Gess, F.W. 444, 445.
 Gess, S.K. 444.
 Gesta, G.L. 774.
 Getty, T. 1223, 2344.
 Getz, L.L. 191, 3455.
 Gevorkian, K.N. 2019.
 Gewecke, M. 3036.
 Geyer, L.A. 3876.
 Geyer, M.A. 2144, 2225, 3200.
 Gherardi, F. 93.
 Ghezzi, P. 1639.
 Giacomini, C. 2591.
 Giannelli, V. 2516.
 Giardini, V. 3246.
 Giannini, J.D. 1563, 3805.
 Gibbon, J. 2975.
 Gibbons, J.L. 2154.
 Gibbs, J. 977, 1970, 4178.
 Gibbs, M.E. 1722, 3304.
 Gibbo, D.L. 3033.
 Gibson, D.D. 656.
 Gibson, R.N. 754.
 Giennke, L. 1634.
 Ginkis, M.L. 959.
 Gilbert, F.F. 1564.
 Gilbert, N. 1428.
 Gilboa, A. 2528.
 Gill, B. 1430.
 Gill, F.B. 1522.
 Gillan, D.J. 603.
 Giller, P.S. 1436, 3038.
 Gillette, K. 1685, 1697.
 Gilles, M.T. 1881.
 Gilliland, J.W. 4002.
 Gillingham, J.C. 325, 1447.
 Gillingham, J.E. 3051.
 Gilmore, R.G. 157.
 Gino, A. 582, 1634.
 Giovannini, B.E. 2916.
 Giovannozzo, L.E. 2541.
 Gipe, T.G. 3877.
 Gipps, J.H.W. 2587.
 Gipps, J.H.W. 69.
 Gipson, P.S. 89.
 Girmann, S.V. 4199.
 Giron, J.F. 1299.
 Gish, S.L. 3420.
 Gispert, W.H. 3291, 3364.
 Gittleman, J.L. 1345, 2754.
 Gladstone, D.E. 506.
 Glagolev, A.N. 628, 4033.
 Glaser, K.E. 3605.
 Glass, B.P. 4061.
 Gleason, P.E. 2333.
 Gleizer, S.I. 463.
 Glencross, R.G. 3326.
 Glendon, F.M. 1653.
 Glennie, W. 2326.
 Glennon, R.A. 2158.
 Click, S.D. 973, 3169, 4179.
 Glickman, L.T. 3229.
 Glover, J.G. 3652.
 Glover, J.R. 1026, 3253.
 Gluesing, E.A. 2220.
 Glusman, M. 66, 883, 4270, 4358.
 Gmerek, D.E. 2190, 4281.
 Goas, J.A. 2980.
 Gobaile, S. 4465.
 Gobel, G. 1821.
 Gobbi, N. 214, 2405.
 Gochfeld, M. 162, 1302, 2706, 2728, 3054.
 Gochfeld, N. 2729.
 Godding, P.R. 3190, 4029, 4226.
 Godwin, J. 2483.
 Godin, J.-G.J. 339, 756.
 Gudzinska, E.J. 1548, 3001.
 Goeldin de Tienenau, P. 4039.
 Goert, J.W. 2719.
 Goetzlam, K.G. 4374.
 Gold, M.I. 1715.
 Gold, C.G. 3289.
 Goffart, M. 497.
 Gogate, M.G. 3566.
 Golani, I. 3299.
 Gold, M.R. 1981.
 Gold, P.E. 2989.
 Goldberg, D.M. 2101.
 Goldberg, J. 586, 2557.
 Goldberg, M.B. 493.
 Goldberg, S.R. 1030, 2101.
 Golden, A.J. 1070.
 Goldenring, J.R. 3889, 4311.
 Goldenthal, P. 1383.
 Goldfoot, D.A. 1056, 1356, 3440.
 Goldhammer, E. 3907.
 Goldman, D.J. 4032.
 Goldsmith, M. 1605, 3241.
 Goldsmith, P.A. 1707.
 Goldstein, M.L. 3184, 4227.
 Goldstein, R. 1058.
 Goldsworthy, G.J. 4068.
 Golub, L. 3989.
 Golub, M.S. 2553.
 Golus, P. 2128, 2146.
 Gomez, M.J.C. 2961.
 Gomez, S. 2222.
 Goncalves, L.S. 223.
 Gonda, Z. 4307.
 Gonzaiz, C.A. 210.
 Gonzales, L. 2222.
 Gonzalez, A.B. 259.
 Gonzalez, C.A. 209, 3330.
 Gonzalez, M.F. 395.
 Goodale, M.A. 888.
 Goodall, A. 2468.
 Goodenough, D.R. 4074.
 Goodlett, C.R. 4248.
 Goodlin, B.L. 209.
 Goodpasture, C.E. 1243.
 Goodrich, C. 1574.
 Goodrich, C.L. 845.
 Goomas, D.T. 1782.
 Gorbanova, N.N. 342.
 Gordenko, N.S. 3542.
 Gordin, A. 4407.
 Gordon, D. 3223.
 Gordon, D.G. 343.
 Gordon, E.F. 1733, 3886.
 Gordon, K.R. 1875.
 Gordon, M.M. 1189.
 Gordon, R.C. 3886.
 Gordon, T.P. 3580, 4438.
 Gordon, W.C. 1822.
 Goreau, N.I. 83.
 Goreau, T.J. 83.
 Gorman, M. 3808.
 Gorenz, W.P. 3015.
 Gornup, P.D. 2898.
 Gormis, L.G.M. 3270.
 Gornski, R.A. 1053.
 Gorn, R.E. Jr. 2812.
 Gorkzalka, B.B. 2177.
 Goshima, S. 2623.
 Gosling, L.M. 3478.
 Goss-Custard, J.D. 3716.
 Gottfried, K.E. 838.
 Gottlieb, G. 508, 1601, 2907.
 Gottlieb, R. 1075.
 Goudie, A.J. 3995.
 Goudoume, E.A. Jr. 1833.
 Gould, E. 1855.
 Gould, J.L. 2268, 3006, 4035.
 Gouri, C. 2264.
 Govindan, R. 2381.
 Gowdie, C.W. 1001, 2064.
 Goy, R.W. 1356.
 Goyens, J. 65, 3449.
 Grace, M. 4377, 4478.
 Graef, J. 887.
 Graeff, F.G. 2162.
 Graf, M. 1962.
 Grafner, V.G. 645.
 Graham, D. 682, 683.
 Graham, N. 702.
 Graliewicz, S. 2003.
 Grandinetti, A. 4040.
 Granger, R.G. 1707.
 Granneman, J.G. 3345.
 Granovsky, T.A. 3737.
 Grant, D.S. 608, 612, 3993, 4029.
 Grant, G.G. 17.
 Grant, G.S. 2847.
 Grant, L.D. 4294.
 Grant, P.R. 1483, 2467.
 Grassman, J. 251.
 Grasse, P.-P. 2404, 2565.
 Grassia, A. 2609.
 Grassman, M.A. 2906.
 Grastyan, E. 820.
 Grau, H.J. 3634.
 Grau, J.W. 4121, 4477.
 Graur, D. 2879.
 Gravelle, K. 1912.
 Gray, H.B. 1915, 1916, 1921, 3479.
 Gray, D.K. 3277.
 Gray, J.A. 4951.
 Gray, L. 977, 2910.
 Gray, L.E. Jr. 951.
 Gray, P.H. 1633.
 Gray, R.H. 470, 1847.
 Grebeck, L. 877.
 Grebeck, D.M. 2101.
 Grebeck, A. 677, 678, 4066.
 Grecksch, G. 493.
 Green, B.G. 1925, 4096, 4097.
 Green, J.M. 152.
 Green, J.P. 4179.
 Green, K.M. 2589.
 Green, P.T. 2479.
 Green, S.E. 3283, 3292.
 Green, S.M. 3441.
 Greenaway, P. 1553.
 Greenberg, E. 1833.
 Greenberg, J. 874.
 Greenberg, J.H. 857.
 Greenberg, L. 1240, 1951.
 Greenberg, M.S. 3967.
 Greene, G.C. 773.
 Greengard, O. 3169.
 Greenland, R.D. 3241.
 Greengough, W.T. 1629.
 Greenshaw, A.J. 1018, 1929.
 Greenspan, J.M. 405.
 Greenwald, G. 876.
 Greenwald, G.S. 1041.
 Greenwood, J.J.D. 3652.
 Greenwood, R.J. 1491, 2746.
 Greer, E.R. 3154.
 Gregg, B. 2203.
 Gregorova, S. 3850.
 Gregory, P.A. 3820.
 Greib, A. 4134.
 Greib-Smith, P.W. 2291, 2538, 3421.
 Hahn, J.C. 142, 2628.
 Hahn, N. 4273.
 Hahn, W.C. 846.
 Hall, W.G. 738, 1516, 3927.
 Haller, J. 3752.
 Hallett, C. 3715.
 Halliday, R. 3188.
 Halliquest, J. 2028.
 Halpenn, J.M. 3110, 4145.
 Halpern, M. 1154.
 Halpin, Z.T. 3425.
 Hamberg, J.M. 614.
 Hamelin-Vivien, M.L. 338.
 Hamilton, K.L. 374.
 Hamilton, L.W. 2036.
 Hamilton, M. 1053.
 Hamilton, P.V. 631, 632.
 Hamilton, S.C. 1959.
 Hamilton, W.J. 1731, 2154.
 Hamon, R.J. 1884, 1820.
 Hammer, R.P. Jr. 518.
 Hammon, G.A. 2664.
 Hammon, M.O. 484.
 Hammond, L.S. 3662.
 Hamon, W.M. 627.
 Hamon, M. 4371.
 Hanai, K. 3655.
 Hancock, R.A. Jr. 3913.
 Hand, J.L. 2470.
 Handelman, G.E. 2040.
 Handford, P. 475.
 Handwerker, B.S. 4164.
 Hanlon, R.D.G. 1396.
 Hannigan, J.H. Jr. 2031, 2043, 2238, 3364.
 Hannum, M.E. 3606.
 Hano, J. 2080.
 Hansen, B.C. 416.
 Hansen, C. 3368.
 Hansen, K.N. 1884.
 Hansen, S. 1051.
 Hansen, T. 2946.
 Hanson, S.J. 536.
 Hanson, W.C. 2864.
 Hanula, J.L. 115.
 Harabuchi, T. 1016.
 Harada, K. 2683.
 Haraway, M.M. 1185.
 Harayama, S. 4030.
 Harbeck, R. 527.
 Harbo, J.R. 57, 3673.
 Harding, C.F. 4596.
 Harding, J.W. 2127.
 Harding, V. 4381.
 Hardy, D.J. 2117.
 Hardy, J.W. 2354.
 Hari, T. 4239.
 Harley, C.B. 500.
 Harlow, P. 60.
 Haack, B. 47.
 Haack, R. 1089.
 Haas, G.H. 1089.
 Haber, S. 1082.
 Haber, S.B. 2339.
 Haberser, J. 1858.
 Habie, C.P. 485.
 Hackbarth, K.R. 122.
 Hackman, R.M. 1921.
 Haddad, N.F. 1643.
 Hadley, M. 1488.
 Haedenkamp, G. 1045.
 Haessler, V.U. 2550.
 Hauber, H. 1306.
 Haga, R. 1324.
 Haggblom, S.J. 1632, 1686, 1788, 3938, 4008.
 Hagiwara, G. 3134.
 Hage, P. 3434.
 Hahn, D.C. 2841.
 Hahn, M.E. 1760, 2339.
 Hahn, R.A. 4369.
 Hahn, V.V. 2304.
 Hahn, Z. 4231.
 Halman, J.P. 4042.
 Hall, C.J. 2708.
 Hajkova, Z. 2279.
 Halfer, F. 4436.
 Halber, G. 3494.
 Hallfiter, V. 3494.
 Hall, D.J. 2672.
 Hall, G. 3909.
 Hall, G.A. 655.
 Hall, J.C. 142, 2628.
 Hall, N. 4273.
 Hall, W.C. 846.
 Hall, W.G. 738, 1516, 3927.
 Haller, J. 3752.
 Hallett, C. 3715.
 Halliday, R. 3188.
 Halliquest, J. 2028.
 Halpenn, J.M. 3110, 4145.
 Halpern, M. 1154.
 Halpin, Z.T. 3425.
 Hamberg, J.M. 614.
 Hamelin-Vivien, M.L. 338.
 Hamilton, K.L. 374.
 Hamilton, L.W. 2036.
 Hamilton, M. 1053.
 Hamilton, P.V. 631, 632.
 Hamilton, S.C. 1959.
 Hamilton, W.J. 1731, 2154.
 Hamon, R.J. 1884, 1820.
 Hammer, R.P. Jr. 518.
 Hammon, G.A. 2664.
 Hammon, M.O. 484.
 Hammond, L.S. 3662.
 Hamon, W.M. 627.
 Hamon, M. 4371.
 Hanai, K. 3655.
 Hancock, R.A. Jr. 3913.
 Hand, J.L. 2470.
 Handelman, G.E. 2040.
 Handford, P. 475.
 Handwerker, B.S. 4164.
 Hanlon, R.D.G. 1396.
 Hannigan, J.H. Jr. 2031, 2043, 2238, 3364.
 Hannum, M.E. 3606.
 Hano, J. 2080.
 Hansen, B.C. 416.
 Hansen, C. 3368.
 Hansen, K.N. 1884.
 Hansen, S. 1051.
 Hansen, T. 2946.
 Hanson, S.J. 536.
 Hanson, W.C. 2864.
 Hanula, J.L. 115.
 Harabuchi, T. 1016.
 Harada, K. 2683.
 Haraway, M.M. 1185.
 Harayama, S. 4030.
 Harbeck, R. 527.
 Harbo, J.R. 57, 3673.
 Harding, C.F. 4596.
 Harding, J.W. 2127.
 Harding, V. 4381.
 Hardy, D.J. 2117.
 Hardy, J.W. 2354.
 Hari, T. 4239.
 Harley, C.B. 500.
 Harlow, P. 60.

- Harmann, G.E. 129
Harmelin-Vivien, M.L. 1473.
Haroutunian, V. 1920, 2920.
Harper, D.G.C. 3711.
Harper, S. 4140.
Harrell, E.A. 1866.
Harrar, P. 1837.
Harrington, B.A. 4051.
Harrington, B.J. 1250.
Harrington, F.H. 3821.
Harris, A.H. 1712.
Harris, M.A. 3424.
Harris, R. 4159.
Harris, R.A. 3298.
Harris, R.N. 2347.
Harris, V.E. 3388.
Harrison, J.M. 2970.
Harrison, J.S. 1424.
Harrison, P.C. 965.
Harrison, R.J. 180.
Harold, C. 2619.
Hart, G.A. 3353.
Hart, G.J. 4327.
Harston, C.T. 949.
Hart, J.L. 3260.
Hart, W.G. 1285.
Hartl, P. 1682.
Hartman, H.B. 1907.
Hartman, J.A. 841.
Hartman, J.G. 4042.
Hartmann, R.J. 3259, 4395.
Hartung, W.C. 923.
Hartung, T.G. 3569.
Hartweg, C.B. 1718.
Harvey, G.C. 4419.
Harvey, J.A. 884.
Harvey, P.H. 2754.
Harvey, T.L. 2209.
Harvill, B.G. 1544.
Harvill, R.S. 725.
Hashimoto, S. 875.
Hassan, A. 3907.
Hasson, D.M. 2229.
Hastings, D.C. 2156.
Haton, D.C. 1792.
Haug, M. 1201.
Haug, T.M. 238.
Hauptmann, M. 970.
Hauri, R. 627.
Hause, K. 709, 827.
Hausefater, G. 2509, 2923.
Hausmann, K. 1400.
Havemann, U. 4162.
Haverty, M. I. 85.
Hawkins, J. 1945.
Hawson, M.F. 945.
Hawkins, R.D. 819, 820, 821, 822, 823.
Hayashi, K.-I. 2449.
Hayashi, T. 3235.
Hayes, S. 1451.
Haycock, R.J. 2713.
Hayes, R.L. 83.
Hayman, J.M. 414.
Haynes, J.M. 470.
Hays, M.J. 242.
Hays, S.E. 3312.
Haystead, T.A.J. 4012.
Hayton, W.L. 972.
Hayward, T.L. 422.
Hazelbauer, G.A. 4030.
Hazzlett, B.A. 2251, 3442.
Heal, D.J. 4350.
Heard, E. 2935.
Heath, E. 1372.
Heaton, M.B. 563, 1602.
Heavner, G.B. 2100, 3248.
Hebert, D. 3247.
Heck, E. 3120.
Heck, K.L. Jr. 418.
Hecker, R.V. 4032.
Hedberg, R.T. 2282.
Hedden, R.L. 2261.
Heed, W.B. 122, 2629.
Heftiz, A. 2568.
Heff, J.L. 3519.
Hefferman, J.J. 1404.
Heffner, H. 3387.
Heffner, R. 3387.
Heffner, T.G. 841.
Heimann, J.P. 3848.
Hegner, R.E. 3472.
Hegstrand, L.R. 1953, 2022, 3176.
Heighington, G.A. 3978.
Heinrich, C.F. 2612.
Heiligenberg, W. 1596.
Heinemann, D. 1088.
Heinemann, E.G. 1778.
Heinrich, B. 1644.
Heinz, G.H. 2949, 3714.
Heinz, P.A. 3714.
Heinonius, M.P. 4326.
Heikamp, D.H. 1110.
Heland, M. 694, 695.
Heldmaier, G. 3798.
Helfman, G.S. 3873.
Helle, P. 2760.
Helle, T. 2546.
Heller, S. 1154.
Helm, K.F. 1835.
Hemenway, R.C. Jr. 293.
Hemmes, N.S. 3907.
Hemsworth, P.H. 1100, 3368.
Henderson, N.D. 1389.
Henderson, N.E. 1044.
Hendler, G. 3487.
Hendley, E.D. 3288.
Hendricks, J.C. 1114, 4146.
Hendrickson, A.E. 805.
Hendrickson, J.R. 2906.
Hendrie, C.A. 4165.
Hennessy, M.B. 3330.
Hennig, C.W. 2226, 2241.
Henning, S.J. 1502.
Henningfield, J.E. 556, 1097.
Henry, C.S. 2419.
Henry, K.R. 1923.
Henry, M. 3728.
Henschel, J. 3748.
Henton, W.W. 532, 550, 718.
Heong, K.L. 3361.
Herler, J. 4314.
Her, C. 3084.
Herakovic, J. 2102.
Herberg, L.J. 4198.
Herbers, J.M. 457.
Herbert, D. 2099.
Herbert, D.C. 758.
Herbut, M. 847.
Herd, J.A. 2946, 4216.
Hertling, S. 1021, 1027, 3226, 4359.
Herman, B.H. 49, 2150.
Herman, L.M. 1669, 3996.
Hernandez, H. 3125.
Hernandez, L.L. 1753, 2936.
Hernando, J.G. 1059, 2514.
Herrera, C.M. 349.
Herringshaw, D. 2475.
Herrmann, T. 4016, 4017.
Herrstein, R.J. 1800.
Hershkovitz, M. 3123.
Herskovitz, K. 4101.
Hertz, P.E. 1560, 3797.
Hervani, L. 2372.
Herzog, P.W. 664.
Hesthagen, I.H. 754.
Heth, C.D. 1713.
Heth, G. 509.
Heusner, A.A. 4433.
Hewitt, R. 2833.
Hewson, R. 4457.
Heyneman, N. 3944.
Hicks, R.A. 1944, 1945, 2222.
Hidaka, H. 1007.
Hidaka, T. 3498, 3499.
Hienz, R.D. 1771, 2171.
Hiett, J.C. 3416.
Higashi, K. 3464.
Higashi, M. 2598.
Hill, A.S. 13.
Hill, B. 426.
Hill, C.W. 1899.
Hill, E.F. 3963.
Hill, E.M. 2226.
Hill, G.J.E. 2866.
Hill, J.O. 3749.
Hill, K.G. 1908.
Hill, L.C.J. 4387.
Hill, P.L. 4211.
Hill, R.C. 1699.
Hillgarth, N. 2529.
Hillhouse, T.L. 2627.
Hillman, S. 4461.
Hilton, D.F.J. 2786.
Hinch, G.N. 1226.
Hindman, J.L. 1367.
Hindson, R.E. 1694, 1743.
Hirano, C. 29.
Hirashima, Y. 1260.
Hiroki, M. 3090.
Hirooka, Y. 1284.
Hirsch, E. 3746, 3750.
Hirsch, J. 1992, 2881.
Hirsch, K.J. 1175.
Hirst, M. 1001, 2064.
Hislop, R.T.C. 1901.
Hivori, T. 3495.
Hjerpe, C. 1010.
Hjorth, S. 2149.
Hlinak, Z. 1323.
Ho. 2086.
Hocking, W.E. 1203.
Hodge, K.G. 3175.
Hodges, C.M. 309.
Hodges, H.M. 3283, 3292.
Hodgins, H.O. 2673.
Hodgson, J. 398, 4223.
Hodgson, J.A. 1945.
Hodun, A. 1186.
Hoehler, F.K. 1762, 3974.
Hoehn, E.O. 2536.
Hoeldobler, B. 1418.
Hoeker, H. 2469.
Hofbauer, J. 1075, 1076, 1077.
Hofer, M.A. 3127.
Hoff, M.P. 1355, 4492.
Hoff, S.J. 3444.
Hofler, B.J. 896.
Hoffman, A. 527.
Hoffman, D.L. 53.
Hoffman, H.J. 2315.
Hoffman, H.S. 1672.
Hoffman, J.W. 4119.
Hoffman, W. 3523.
Hoffmann, J.C. 1057.
Hoffmann, W.E. 740.
Hoffmaster, D.K. 3065, 3789.
Hoffmann, J.E. 3455.
Hogan, D.E. 587, 1815, 2964.
Hogan, M.R. 2205.
Hogeweg, P. 2371.
Hokkanen, H. 759.
Holahan, W. 4314.
Holdefer, R.N. 4089.
Holder, M.D. 1666.
Holehan, B.M. 3663.
Hollan, E. 2940.
Holland, P.C. 581, 1700, 1701, 4000.
Hollander, A.L. 3138.
Hollander, W.F. 3018, 3846, 4055.
Hollman, D.F. 404.
Hollenberg, M.D. 3124.
Holley, A.J.F. 3590.
Hollingshead, T.A. 3938.
Holloway, F.A. 615, 885, 1998.
Holloway, W.R. 1374, 2578.
Holloway, W.R., Jr. 4309.
Holm, R.A. 1669.
Holman, E.W. 546, 3923.
Holman, S.D. 2495, 2496.
Holmberg, R.G. 2636.
Holmes, L.J. 4480.
Holmes, R.T. 513.
Holobean, A.M. 969.
Holzman, S.G. 1791, 2125, 3274.
Holtkyote, C.W. 4133.
Holzer, A.A. 4445.
Holzman, A.D. 3961.
Homewood, J. 3981.
Hornfield, E. 3298.
Hore, J. 979.
Honda, H. 1256, 3532.
Honda, K. 3112.
Honegger, W.W. 1882.
Hong, W.K. 2986.
Hood, R.C. 125.
Hoogland, J.L. 1371.
Hook, A. 1247, 2520.
Hook, A.W. 1543.
Hooper, G.H.S. 2194.
Hooper, R.G. 364.
Hopkins, C.D. 3398.
Hopkins, H.C. 4276.
Hopkins, J. 2093.
Hopkins, M.J.G. 3679.
Hopkins, T.L. 331, 332, 333, 1404.
Horber, E.K. 1341.
Hore, J. 726.
Horejsi, B.L. 491.
Horike, M. 29.
Horikawa, M. 340.
Horita, A. 1042, 3258.
Horkay, F. 4307.
Horn, G. 835.
Horn, S.W. 1732.
Hornbuckle, P.A. 4238.
Hornby, P. 3182.
Horne, J.F.M. 1169.
Hornung, R.W. 4325.
Horowitz, S.W. 3984.
Horrell, I. 207.
Horsburgh, R.J. 3290.
Horstmann, K. 1442.
Horton, C.C. 1525.
Horton, G.M. 3353.
Horton, I.F. 2194.
Hosney, G.R. 3646.
Hoshikawa, T. 1434.
Hosutt, J.A. 3206.
Hotchin, J. 3255.
Hotchkiss, H.C. 225.
Hotthorn, R.L. 154.
Hough, J.A. 129.
Houpt, K.A. 1917, 4455.
Houston, S.S. 1296.
Houston, S.D. 2710.
Houston, A. 4490.
Houston, C.S. 3545.
Houten, J.V. 2993.
Howard-Tripp, M.E. 1340.
Howard, A.J. 3948.
Howard, B. 1512.
Howard, J.L. 3179.
Howard, R.W. 85, 1189.
Howard, S.M. 2183, 2334, 2341.
Howden, A.T. 1427.
Howden, H.F. 1427.
Howe, H.F. 1477.
Howe, M.A. 2573.
Howe, N.R. 2.
Howe, T.D. 1490.
Howell, D.J. 1493.
Howell, H.N. Jr. 3335.
Howells, K.F. 1616.
Hoxter, A.L. 1351.
Hoyenga, K.B. 2912.
Hoyenga, K.T. 2912.
Hoyt, D.F. 697.
Hsu, S.H. 1798.
Huang, S.P. 4185.
Hubbard, J.W. 4493.
Hubbard, S.F. 3652.
Hubrecht, C.C. 3341.
Huck, U.W. 1177.
Huckelbridge, F.H. 1963.
Huddleston, E.W. 299.
Hudson, R.J. 2586, 2865.
Huer, J.J. 1069.
Huerta, C. 3494.
Huey, R.B. 1559, 1560.
Hughes, A.L. 1241, 3406.
Hughes, B.O. 3341, 4467.
Hughes, C.A. 2241.
Hughes, C.W. 1581.
Hughes, H.P.I. 2625.
Hughes, J. 2947.
Hughes, M.K. 3406.
Hughes, R.A. 2122, 4485.
Hughes, R.D. 2208.
Hughes, R.N. 976, 2151, 2618, 2625, 3287, 3290.
Huill, E.M. 1054.
Huim, R.H. 1669.
Hulse, S.H. 1677, 2974.
Hultsch, H. 232.
Hummel, H.E. 1836.
Humphrey, P. 665.
Humphreys, A.P. 1617.
Humphreys, W.F. 685, 1085.
Humphries, C.R. 2153.
Hund, K. 163.
Hunsaker, W.G. 763, 1094.
Hunt, G.E. 4257.
Hunt, G.L., Jr. 2471.
Hunt, T. 2116.
Huntley, M. 1402.
Huntly, N.J. 2845.
Huot, S. 4391.
Hupp, J. 479.
Hurd, L.E. 270, 1409.
Hurd, P.C. 2268.
Hurd, R.W. 4213.
Hurley, D.D. 3395.
Hurst, S.R. 918.
Hurst, R.J. 3045.
Hussell, D.J.T. 3016, 3021.
Huston, J.P. 3152, 3191, 4255.
Hutchings, D.E. 4276.
Hutchinson, J.S. 4202.
Hutchison, J.B. 1035, 1312, 2174, 2495, 2496.
Hutchinson, S. 4320.
Hutcheon, V.H. 1561, 3801.
Hutton, G.D. 1101.
Hutto, R.L. 2690, 3710.
Huyton, P.M. 2414.
Hyden, H. 797.
Hyer, A.H. 1249.
Hymowitz, N. 2126.
Hynes, M.A. 2110.
Hynes, M.D. 4369.
Hyson, R.L. 1747, 3939.
Hytel, J. 952.
Imanora, A. 3695.
Ibuka, N. 4142.
Ideker, J. 3790.
Idoji, H. 3069.
Iga, M. 1268.
Ikaga, T. 3504.
Ikeda, H. 3069.
Ikeda, M. 957.
Ikeda, T. 1016, 1134.
Ikeda, Y. 3106.
Ikemura, W.N. 692.
Ikeshio, T. 644, 1286.
Ikonomov, O.C. 4234.
Iani, G. 2764.
Ilgen, J. 2026.
Ilana, W.H. 2239.
Imada, H. 1687, 1740, 3985.
Imada, S. 1740.
Imafuku, M. 3770.
Imbert, M. 861.
Immelmann, K. 4497.
Immsand, S. 3775.
Ina, K. 3689.
Inamura, O. 340.
Ince, S.A. 1168.
Infurua, R.N. 1941.
Ingle, D.J. 721.
Ingordo, A. 4083.
Ingram, D.K. 845, 1767.
Inoko, H. 1910.
Inoue, H. 3379.
Inoue, S. 3104, 3112, 4189.
Inouye, D.W. 2845.
Inouye, M. 1613.
Inouye, S. 2845.
Ioale, P. 660, 663, 3013, 3022, 4048, 4049, 4058.
Iorio, L.C. 3110, 4145.
Iqbal, Q.J. 1114.
Irie, E. 4245.
Irvine, J.R. 3693.
Isaac, W. 741, 1070.
Isaacson, R.L. 698, 2031, 2043, 2238, 3364.
Isaev, S.I. 185, 3556.
Isenhour, D.J. 1551, 3520.
Ishay, J. 216.
Ishihara, R. 1432.
Ishii, M. 2384.
Ishii, S. 1036.
Ishii, T. 12.
Ishikawa, Y. 644, 1286.
Ishizuka, S.I. 2009.
Ison, J.R. 1615, 4372.
Istravizackov, R.Z. 229.
Itagaki, H. 1.
Itani, T. 12.
Ito, M. 3947.
Ito, M.O. 2976.
Itoigawa, N. 3574.
Itoigawa, E. 4173.
Ivanitsky, V.V. 177.
Iwasaki, K. 3544, 3622.
Ivanova, T.M. 3158.
Iversen, S.D. 3195.
Ives, P.M. 1428.
Iwai, J. 1957.
Iwasa, Y. 2598.
Iwasaki, K. 3733.
Iwawata, M.O.E. 1498.
Ixart, G. 904.
Izquierdo, I. 787, 1013, 1997.
Jaccard, M. 4038.
Jackett, J.W. 743.
Jackson, D.E. 553.
Jackson, D.M. 791, 856, 3786.
Jackson, R.R. 269, 1361, 2380, 2386, 2604.
Jackson, J.C. 1316.
Jacob, S.J. 2818.
Jacob, S.S. 2686.
Jacobs, H.L. 3746.
Jacobs, W.J. 583, 2932, 3979.
Jacobsen, N.K. 2861.
Jacobson, H.R. 2563.
Jacobson, M. 300.
Jacoby, C.A. 1360.
Jacobs, A.R. 55.
Jacquin, M.F. 4159.
Jadot, G. 954.
Jaeger, R.G. 326, 2320, 2820.
Jaenike, J. 3514.
Jaenson, T.G.T. 2637.
Jaerle, T.U.C. 1010.
Jagiello, J.A. 2964.
Jahn, V.E. 305.
Jain, A.P. 2213.
Jairajpuri, M.S. 3491.
Jakovich, W.J. Jr. 3926.
Jalowiec, J.E. 2150.
James, J.P. 2926, 3980.
James, P.C. 2697.
James, T.A. 895.
Jamieson, D.G. 900.
Jamieson, R. 1205.
Jamieson, W.S. 398.
Jamieson, T.S. 1339.
Jancsar, S.M. 3264.
Janean, G. 2365.
Janes-Butler, S. 2459.
Janetos, A.C. 2610.
Jannett, F.J. Jr. 2505.
Janowsky, J.S. 3277.
Jang, C. 625, 4034.
Janssen, G.M. 624.
Janssen, J. 3691, 3698.
Jansen, P.A.J. 1790.
Jansen, D.H. 3952.
Janzon, W.C. 4122.
Janzow, F.T. 3527.
Javan, G. 68.

- Jason, K.M. 1624, 3237
 Jaysingh, D.B. 2425
 Jayasunya, A. 1146
 Jayasunya, A.K. 1143
 Jean-Faucher, C. 3603
 Jean, C. 3603
 Jeannet, R.L. 1191, 2257
 Jeffcott, L.B. 4454
 Jefferson, M.C. 1267
 Jellinck, P.H. 4409
 Jellmann, J. 658
 Jen, K.C. 416
 Jenden, D.J. 2163
 Jenkins, H.M. 537, 2186
 Jenkins, K.J. 2583
 Jenkins, O. 791
 Jenkins, P.E. 564, 1668
 Jenner, P. 998, 3233
 Jennings, T.J. 1175
 Jensen, G.D. 192, 4416
 Jensen, K.R. 1391
 Jensen, R.A. 610
 Jensen, T.S. 2808, 4161
 Jensch, R.P. 600
 Jeppesen, L.E. 3601
 Jeppesen, L.E. 3604
 Jervey, J.P. 728
 Jessen, K. 38
 Jessup, D.D. 2452
 Jew, M.H. 314
 Jiang, G.H. 442
 Jimenez, M.L. 514
 Jingfors, K.T. 2862
 Jitsumun, M. 4082
 Jobe, J.B. 3855
 Jobling, M. 3694
 Joernmann, G. 1857, 1859
 Joern, A. 1557
 Johannesma, P.I.M. 732
 Johansen, C.A. 2635
 Johansen, J. 528
 Johansen, J.P. 3804
 Johanson, I.B. 1516, 3927
 Johansson, C. 1827
 Johns, J.M. 4305
 Johnson, J.O. 107
 Johnson, A.J.T. 2539
 Johnson, A.K. 411
 Johnson, C.D. 315
 Johnson, D.F. 79, 3460
 Johnson, D.W. 1130
 Johnson, E.J. 1310
 Johnson, E.Z. 345, 2669
 Johnson, F.N. 1112, 3222
 Johnson, J. 411
 Johnson, J.H. 345, 2669
 Johnson, K.J.R. 1541
 Johnson, K.M. 4342
 Johnson, L.K. 421
 Johnson, M. 1550
 Johnson, M.R. 2097
 Johnson, P.C. 455
 Johnson, R.B. 2301
 Johnson, S.R. 1849
 Johnson, T.K. 2752
 Johnson, M.E. 4438
 Johnston, R.E. 1327, 1383, 1922
 Johnston, R.H. 2863, 3627
 Johnston, T.D. 419, 1601, 3331, 4418
 John, G.N. 1125
 Johnceur, F.B. 962
 Joly, P. 2665
 Jonasson, T. 3497
 Jones, A.C. 3869
 Jones, C.B. 3579, 3645, 3649
 Jones, D.L. 942, 2011
 Jones, D.R. 3370
 Jones, E. 3644, 4239
 Jones, G.P. 154
 Jones, G.W. 4031
 Jones, J.G. 1011
 Jones, L. 1726, 1739, 1765, 1794
 Jones, M.D.R. 4132
 Jones, O.W. 1828
 Jones, P.M. 1095
 Jones, R.B. 3338, 3342, 4462, 4467
 Jones, R.H. 680
 Jones, R.S.G. 4195
 Jonsson, L. 3074
 Jordan, T.C. 1616
 Jordan, W.P. 3205
 Jorg, A.G.D. 3755
 Jorgensen, C.D. 1362, 2646, 2752
 Jorgensen, O.S. 4171
 Jork, R. 4337
 Joswack, G.R. 2679
 Jotwani, M.C. 3493
 Joyner, M. 772, 1604, 1948
 Joyce, C.M. 730
 Joyce, E.M. 890
 Joyce, G. 2673
 Joyce, T.N. 1019
 Joyce, T.M. 1831
 Judge, P. 249
 Julien, C. 3148
 Jurkowlane, E. 597
 Juska, A. 1363
 Justiaux, M. 97
 Jutsum, A.R. 4068
 Juweid, A.R. 1773
 Kadar, T. 930
 Kadota, T. 831
 Kaellquist, L. 3597
 Kaempf, G.F. L. 1784
 Kafka, M.S. 1942
 Kalfanoglu, O. 3515
 Kapeyama, N. 1007
 Kahn, J.A. 3139
 Kai, M. 3347
 Kaidanov, L.Z. 2878
 Kainob, Y. 3492, 3495
 Kaiser, H. 3465
 Kaiser, J. 4256
 Kakuda, S. 2449
 Kalant, H. 950
 Kalchheim, C. 3327
 Kalikhevich, V.N. 975
 Kalivas, P.W. 1042
 Kalman, M.J. 4321
 Kalmykov, V.I. 2223
 Kamei, H. 3046, 3168
 Kamei, H. 3047
 Kamenskii, A.A. 4370
 Kamensky, A.A. 975
 Kameyama, T. 966, 4392
 Kameyama, Y. 4413
 Kaminski, R.M. 3704
 Kanarek, R.B. 983, 2086
 Kandel, E.R. 820, 821, 822, 2984
 Kanelo, N. 2045
 Kanehara, K.Y. 3517
 Kanneberg, C.H. 592
 Kanno, H. 1264, 1274, 1287
 Kano, T. 3651
 Kantak, K.M. 1953, 2022, 3176
 Kant, J. 4182
 Kao, L. 3197
 Kaplan, B. 2026
 Kaplan, B.J. 2005
 Kaplan, H. 1960
 Kaplan, P.S. 1678, 2935
 Kapoor, K.N. 2435
 Kapp, B.S. 928
 Karadi, Z. 4231
 Karas, A.Y. 596
 Karczmar, A.G. 3162
 Kardish, T.A. 3917
 Kareem, A.M. 3632
 Karman, M. 629
 Kar, R.A.P. 1612
 Karl, B.J. 1225
 Karlborn, M. 1480
 Karl, P. 580, 2051, 3462, 4261
 Karmann, V.S. 3334
 Karp, E. 1898
 Karplus, I. 3808, 3809
 Kartzev, V.M. 2963
 Karulov, B.E. 3819
 Kasch, T. 2993
 Kashi, S.M. 692
 Kasparian, S. 782
 Kaspi, W.J. 2941, 3937
 Kaspi, V.G. 570, 2955
 Kasberger, G.D. 2803
 Kastan, A.J. 1338, 2156
 Kastner, D. 396
 Kasuya, E. 1532, 1533
 Kataoka, Y. 2945
 Katkov, Y.A. 2223
 Kato, M. 1842
 Kato, T. 4123
 Kato, Y. 415, 1254
 Katsoyannos, B.I. 3392
 Katsuy, J. 1254
 Katsuki, M. 1910
 Katz, J.L. 1026, 2173, 4278
 Katz, R.J. 594, 757, 982, 1009, 1047, 1115, 2053, 2166, 2886, 3214, 4483
 Katz, Y.B. 4057
 Katzi, G. 1195, 1886
 Katzev, B. 1952
 Kaufman, D.W. 2867
 Kaufman, G.A. 2867
 Cavaliers, M. 753, 1935, 3088, 3099, 3143
 Kavanagh, M. 91
 Kavlack, R.J. 951
 Kawab, S. 1432
 Kawakubo, T. 1834
 Kawamichi, M. 3650
 Kawamichi, T. 3650
 Kawamura, G. 715, 1887, 3053, 3336
 Kawamura, Y. 2021, 4123
 Kawamushi, M. 1582
 Kawasaki, K. 25
 Kawato, M. 1933
 Kay, E.J. 549, 1719
 Kay, R.F. 369
 Kaye, M. 3059
 Kazar, D.B. 991
 Kazemkov, O.V. 915
 Keating, E.G. 3209
 Keen, J.D. 1695
 Keen, W.H. 2373
 Keenan, M. 1761
 Kevin, T.M. 3425
 Kehoe, E.J. 555, 1702
 Keim, D.A. 3753
 Kesser, J. 4299
 Keith, L.B. 238, 3475
 Kelche, C. 2020
 Kelkar, V.V. 1020
 Kelleher, R.T. 1028, 4216
 Kelleny, L. 869
 Kellogg, C.K. 1624
 Kelly, D. 2777
 Kello, B.W. 3009
 Kemble, E.D. 1501, 3190, 4226
 Kemnitz, J.W. 3179
 Kempf, E. 793, 911, 2498, 4246, 4357, 4465
 Kenagy, G.J. 3102
 Kenca, A. 2409
 Kendall, D.M. 1869
 Kendall, S.B. 3899
 Kendrick, D.F. 1808, 1810
 Kendrick, D.F. Jr. 1779
 Kendrick, K.M. 1819
 Kennedy, C.R. 2750
 Kennedy, M.K. 113
 Kenney, N.J. 1965, 3741, 4393
 Kenward, R.E. 1480
 Kenyon, C.A.P. 1352
 Kenner, E. 1508
 Kerpin, D.M. 664
 Kerlinger, P. 3019
 Kerr, W.E. 223, 2265
 Kessler, R.P. 177, 1807, 2117
 Kessel, K. 3550
 Kessler, J. 909, 4331
 Kettner, R.E. 1993, 3171
 Kevan, P.G. 1869, 2808
 Keverne, R.B. 3573
 Key, C. 3185
 Keys, W. 877
 Kharutdinov, K.S. 761
 Khalaf, K.T. 139
 Khan, M.A. 231
 Khan, S.A. 1408
 Khananashvili, M.M. 1106
 Khanelwal, J. 4179
 Khartunov, S.P. 3401, 3469, 3470
 Khramuddin, S. 435
 Khayutin, S.N. 3056, 3815
 Khazan, N. 4384
 Khlyap, I.A. 3819
 Khloyayantz, L.Ju. 2019
 Khokhlova, I.S. 3630
 Khomcheva, N.M. 2239
 Khorev, V.I. 731
 Khormanshah, A. 1136, 1314, M. 1018
 Kidd, N.A.C. 3782
 Kiefer, S.M. 4154
 Kierulov, M. 4102
 Kilgore, D.L. Jr. 781
 Kilgour, R. 1785
 Kilham, L. 2328, 2478
 Killeen, P.R. 536
 Kullen, R.P. 673
 Kilpatrick, C. 898
 Kilpatrick, S.J. 2025
 Kimble, D.P. 2017
 Kimmel, C.A. 4301
 Kimmel, H.D. 1069
 Kimmel, K.R. 3560
 Kimsey, L.S. 2519, 2796
 Kimsey, R.B. 2519
 Kindel, G.H. 3162
 King, A.P. 1163
 King, A.R. 1899
 King, B. 3720
 King, B.D. 2846
 King, C. 3113
 King, C.A. 630, 676
 King, D. 1693
 King, J. 1069
 King, J.E. 1599
 King, J.R. 3549
 King, M.G. 2146
 King, P.D. 298
 King, S.E. 4314
 Kinn, D.N. 218
 Kinnard, M.F. 2467
 Kinomura, K. 1242
 Kirland, R.J. 2016
 Kirkpatrick, C.M. 2838
 Kirkpatrick, J.F. 2507
 Kirkpatrick, M. 2802
 Kirouac, G. 2168
 Kirschvink, J.L. 1911, 4045
 Kissner, K. 605
 Kisara, K. 3296
 Kiseleva, I.P. 4345
 Kishida, R. 831
 Kiss, A. 4307
 Kistner, D.H. 2563
 Kita, H. 2009
 Kitabatake, S. 1842
 Kitada, Y. 2094
 Kitahama, K. 3973
 Kitamura, Y. 1887
 Kitano, H. 1271
 Kitchener, D.J. 2857
 Kitching, R.L. 1407
 Kistakis, A. 1991, 3219
 Kitung, C.L. 2622
 Kiyono, S. 776
 Klatt, B.J. 3455
 Kiawans, H.L. 3289, 4343
 Kleiman, D.G. 2502
 Klein, A.E. 3301
 Klein, B.G. 2881
 Klein, H.R. 3291
 Klein, L. 2093
 Klein, M. 4348
 Klein, S.L. 1602
 Klein, U. 4151
 Kleinkrok, Z. 901, 2088, 2170, 4362
 Klemm, W.R. 3156
 Klemperer, H.G. 1289, 2424, 2517
 Kling, A. 1024
 Klingner, A. 2366
 Klinger, T.S. 2616
 Klipke, W.D. 1647
 Klopfer, E. 1776
 Klopfer, P.H. 4495, 4496
 Klopocka, W. 678, 4066
 Klose, K.J. 874
 Klowden, M.J. 1440, 3307
 Kneip, J. 1999, 4377
 Knight, C. 2924
 Knapping, R.P. 217
 Knisley, C.B. 2802
 Knudsen, E.I. 3082
 Knudsen, P.F. 3082
 Knutson, J.F. 3086
 Kobayashi, K. 2683
 Koch, Y. 3227
 Koehl, M.A.R. 2615
 Koek, W. 1078
 Koene, P. 2693
 Koeninger, G. 2394, 3383
 Koeninger, N. 3383
 Koester, F. 4060
 Kofohn, O. 2006, 2243
 Koford, R. 3557
 Kogan, V.M. 606
 Kogure, K. 2997
 Kohda, Y. 3483
 Kohfeld, D.L. 3063, 3064
 Kohler, E.A. 3949
 Kohno, H. 3296
 Kohno, Y. 852
 Kozumi, O. 276
 Kokindis, L. 1003
 Kolb, A. 4468
 Kolb, B. 1956, 2029, 2058, 3198, 4237
 Kolta, M.G. 1119
 Komatsu, H. 4210
 Komiskey, H.L. 972
 Komoda, Y. 3112
 Konchud, V. 2824
 Kondo, K. 3574
 Kondratyev, A.Y. 3537
 Konno, Y. 1256
 Konosu, S. 3689
 Koob, G.F. 890, 3196
 Koolhaas, J.M. 52
 Koop, K. 2761
 Koopmans, H.S. 3759
 Koot, H.L. 3170
 Kooyman, G.L. 1478, 1496
 Koppell, S.M. 730
 Kopytova, F.V. 3172
 Koranyi, L. 526, 775
 Korbut, V.V. 3403
 Korczynski, R. 1014
 Kordower, J.H. 2026
 Kornevskaya, I.V. 3130
 Kornst, P.J.A.M. 2277
 Koslow, J.A. 2677
 Kosoi, M.E. 3751
 Kostaszyk, E. 1705
 Kostas, J. 3255
 Kostina, G.N. 3411
 Kostowski, W. 970
 Kostzewa, R.M. 908
 Kostyuk, P.G. 840
 Kostyukov, A.I. 855, 920
 Kothmann, M.M. 3355
 Kotlyar, B.I. 572
 Kovach, J.K. 1584, 1889
 Kovacs, G. 3155
 Kovacs, G.L. 604
 Koval, I.N. 2019
 Kovaleik, K. 2210
 Kovalikova, M. 2210
 Kovanic, K. 2184
 Kownacki, L.A. 3276
 Koyama, J. 1276
 Kozak, W. 77
 Kozlowski, M.R. 912
 Kraemer, G.W. 3179
 Kraemer, H. 1082
 Kraemer, L.R. 814
 Kraemer, P.J. 1830
 Krafft, K. 4383
 Kraisur, J. 4065
 Kramarcy, N.R. 2135
 Kramer, A.P. 818
 Kramer, B. 2286, 3078
 Kramer, D.L. 335
 Kramer, K.A. 369
 Krank, M.D. 1743
 Krantberg, G. 4086
 Kraus, F.B. 818, 824
 Krato, Yu.G. 860
 Kraz, K.E. 4088
 Kraus, H.J. 560
 Kraus, S. 61
 Kraut, R.E. 1383
 Krahmer, H. 3020
 Krahmer, V. 3020
 Kravchenko, V.D. 3097, 4131
 Krebs, C.J. 69, 3476
 Krebs, J.R. 35, 1161
 Krehmer, A.V. 3537
 Krejci, I. 3064
 Kresl, M. 830
 Kreslavsky, A.G. 3538
 Kribbs, P. 416
 Krnigman, B.R. 4294
 Krnjic, J.C. 194
 Knos, K. 3848
 Krinsky, R. 1033
 Knipke, D.F. 1938
 Krushin, V.V. 1450
 Krnstal, M.B. 1329
 Krnstan, W.B. Jr. 4184
 Krnstensien, B.I. 528
 Krnstensien, J. 3607
 Kroeze, J.H.A. 4099
 Krogman, B.D. 3025
 Kroll, W. 1295
 Kroodma, D. 42, 1159
 Kropotkin, O.V. 3998
 Krop, R.K. 3664
 Krsiak, M. 4390
 Krstic, S.K. 997
 Kruger, B.M. 544, 964, 1802
 Krut, M.R. 851
 Krue, K.C. 31, 2443
 Krushinski, L.V. 3850
 Krushinski, L.V. 3850
 Krusk, H. 1494, 1497
 Krzycki, A.J. 329
 Ksir, C. 2068, 4354
 Kubans, P. 1821
 Kubaki, M. 1593
 Kubo, K. 3347
 Kuboki, M. 2408
 Kubota, A. 12
 Kudon, L.H. 2263
 Kuehl, T.J. 1227
 Kuehlmorgen, B. 2060
 Kuehne, R. 1909
 Kuennen, L.P. 1147
 Kuennen, L.P.S. 3005
 Kuhn, C.M. 1039
 Kuipers, B.R. 624
 Kularn, S.K. 3293
 Kulskosky, P.J. 977, 1747, 1748
 Kulupi, A. 44
 Kumada, N. 26
 Kumar, A. 3890
 Kumar, V. 1937
 Kumar, S. 1368, 3428
 Kundsor, E. 3081
 Kunze, J.C. 262
 Kuperstein, M. 1081
 Kupfermann, I. 1406
 Kuphal, D. 181
 Kupkova, B. 3164
 Kupsessova, V.B. 3040
 Kurczewski, F.E. 106, 1536, 1552, 2412, 2518
 Kurthara, J.S. 2517
 Kurlansk, L. 4308
 Kuroda, M. 2222
 Kuroki, T. 2832
 Kurta, A. 4071
 Kurta, B.H. 86
 Kurup, G.U. 3890
 Kurr, E.M. 2952
 Kuschnsky, K. 4162
 Kushlan, J.A. 2447, 3583

- Kustanovich, T. 831.
Kutuch, W. 1868.
Kutscher, C.L. 1598.
Kuwahara, M.D. 4302.
Kuwamura, T. 2451.
Kuznetsova, M.A. 601, 2981.
Kvamme, T. 635.
Kvetnansky, R. 3158.
Kwan, H.C. 870.
Kyle, A.L. 4219.
- La Barre, S. 2829.
La Lumiere, L.P. 3856.
LaBert, F.S. 3284.
Labelle, M. 466.
LaBorde, J.B. 4301.
Lacher, T.E., Jr. 2366, 2892.
Lachier, G.D. 1777.
Lackey, J.J. 1544.
Lafemere, A. 4260.
Lagarde, J.M. 3126.
Lahiri, P. 3121.
Lahuri, S. 3121.
Lahmann, E.J. 2807.
Lai, H.C. 3258.
Lai, Y.-Y. 3976.
Lain, G.J. 3666.
Lajtha, A. 1109.
Lalshmi, M.B. 4158.
Lalonde, R. 4338.
Lamartiniere, C.A. 4339.
Lamb, M.R. 1806.
Lambert, D.M. 3501.
Lambert, J.F. 567, 613, 863, 864.
Lambert, M.R.K. 462, 1861.
Lambert, R.W. 3161.
Lambrecht, J. 2219.
Laming, P.R. 734, 3118, 3140, 3141, 3182.
Lamp, K. 425.
Lampo, P. 1118.
Lamprecht, J. 3835.
Lan, S. 3218.
Landau, I.T. 1055.
Landauro, M.R. 1529, 2735, 4321.
Landers, J.L. 510.
Laudis, W.G. 1524.
Laudman, M. 2034.
Landolt, P.J. 2413, 2564, 3610.
Lanfumeley, L. 771.
Lang, H.H. 105.
Lang, J.W. 458.
Lange, C.E. 1309.
Lange, P.W. 797.
Langley, P.A. 2414, 3385, 3516.
Langley, W. 1764, 3744.
Langman, V.A. 493.
Lank, D.B. 3536.
Lanoir, J. 3126.
Lanza, R.P. 719.
Lanzing, W.J.R. 467, 780.
Lapierre, Y.D. 849, 4288.
Lapin, I.P. 4345.
LaPlaca Reese, C.S. 291.
Laplace, A. 1689.
Lappack, R. 4261.
Larashi, M. 699.
Larch, C.M. 2426.
Lariviere, M.G. 2452.
Laroche, S. 868.
Larsen, T.B. 2631.
Larsson, A. 511.
Larsson, C. 938.
Larsson, K. 2149, 4319, 4411.
Lasher, S.S. 2030.
Laster, P.S. 1715, 1725.
Lassalle, J.M. 1588.
Lassalle, J.B. 3388.
Last, V. 4135.
Latour, P.B. 2235, 2579.
Lattal, K.A. 3916.
Latto, R. 3061.
Lau, R.J. 215.
Lauder, G.V. 336, 1464, 2678.
Laudien, H. 3529.
Lauga, J. 1547.
Laune, G. 306.
Launey, M. 3943.
Launderbaugh, J.L. 2209.
Laudon, J.W. 3845.
Laune, A. 3826.
Lauthner, J. 472.
Lavender, W.A. 1914.
Lavigne, R.J. 3858.
Lavin, M.J. 3956.
Lavin, P.M. 964.
Lavoie, G.K. 2758.
Lavood, D.G. 1993, 4177.
Lavoo, J. 1760.
Lavoo, M.J. 1760.
Lavretskaya, E.F. 975.
Lawless, H. 4126.
Lawrence, J.M. 2616.
Lawrence, P.O. 1545.
- Lawson, M.S. 1619.
Lawton, M.F. 199.
Layton, C.M. 4421.
Le Boeuf, B.J. 2484.
Le Magnen, J. 1509.
Le Maho, Y. 497.
Le Moli, F. 1193, 2317.
Le Page, G. 1588.
Le V. dit Durell, S.E.A. 3716.
Le Senechal, A.M. 2925, 2960.
Leach, I.H. 3864.
Leahy, M.G. 2279.
Leakey, M.D. 3855.
Leander, J.D. 935, 1724, 2076, 3224, 3225, 3239.
Leatherwood, S. 2309, 2730.
Leathwood, P.D. 3120.
Leaton, R.N. 2032, 3205.
Leavitt, D.F. 3767.
Leblanc, M.A. 2548.
Leclat, J.C. 843.
Leclair, R.J. 320.
LeCroy, M. 44.
LeCubrier, Y. 1015.
Leder, R. 1957.
Ledershouse, R.C. 2813.
Lederman, S.J. 4097.
Lee, C.S.Y. 3199.
Lee, D.N. 3055.
Lee, L.A. 1984.
Lee, P.C. 2596.
Lee, W.Y. 1234.
Lee, Y.P. 4447.
Lee, Y.P. 2206.
Leeson, S. 1466.
LeFebvre, L. 3618.
Leger, D.W. 2312.
Legostayev, G.N. 4435.
Legros, J.J. 3359.
Lehman, R.A. 516.
Lehmann, A. 2108.
Lehmkuhle, S. 4088.
Lehmkuhle, P. 1732.
Lehner, R. 4255.
Lehotzky, K. 4307.
Lehtonen, L. 3706.
Leibowitz, S.F. 2154.
Leigh, N. 998.
Leigh, T.F. 1249.
Leijon, L. 4441.
Lein, M.R. 40, 41.
Lejeune, A. 2966.
Leksell, L.G. 4232.
Lemmer, B. 1586.
Lemmel, P.A. 4429.
Lemon, R.E. 3402, 3540.
Lenard, L.O. 4231.
LeNeindre, P. 203.
Lennartz, M.R. 366.
Lennart, A. 2275, 2559.
Lensky, Y. 217.
Lenting, B.P.M. 4076.
Lentz, J.L. 1599.
Leon, J.A. 307.
Leonard, B.E. 3262, 3264.
Leonard, C.M. 2870.
Leonard, D.W. 1762.
Leonard, J.L. 4129.
Leonard, L.C. 1104.
Leonard, M.L. 3045.
Lepage, M.G. 1393, 1421, 1422.
LePiane, F.G. 4258.
Lepore, F. 4028.
Leppard, K. 2202.
Leroy, Y. 30.
Leshner, A.I. 64.
Leslie, J.C. 1761.
Lesner, S.A. 1709.
Lesner, D. 2138.
Letsou, G. 3057.
Leung, L.S. 4419.
Leung, P.M.B. 2027, 3752.
Leuthold, R.H. 1592.
Levere, T.E. 2038.
Levenenz, H.A. 4314.
Levick, W.R. 3060.
Levin, B.E. 2236.
Levine, A.S. 1969, 1999, 2999, 4164, 4377, 4408, 4478.
Levine, M.S. 1008.
Levine, R.R. 2013.
Levine, S. 195, 209, 210, 519, 2240, 3330.
Levings, S.C. 279.
Levinson, A.R. 23.
Levinson, G. 755.
Levinson, H.Z. 23.
Levitsky, D.A. 2952, 3757.
Levy, J.K. 699.
Lew, M.F. 2048.
Lewis, A.R. 2745.
Lewis, C.A. 3658.
Lewis, J.B. 3667.
Lewis, J.K. 3179.
Lewis, M.J. 4280.
- Lewis, P.D. 3263.
Lewis, R.A. 2360.
Lewis, R.D. 751, 3094.
Lewis, W.J. 18.
Leyk, G. 3098.
Li, W.G. 21.
Liao, Z. 2387.
Liau, H.M. 447.
Lichtenstein, M. 1571.
Lichterstein, M. 4209.
Lickliter, R.E. 3599.
Lidicker, W.Z., Jr. 1570.
Lidicky, T.J. 4430.
Lieberman, K.W. 4286.
Liebllich, I. 2047, 4463.
Liebman, J.M. 2115, 4266, 4273, 4275.
Liem, K.F. 1464.
Liem, N.R. 2285.
Liljequist, S. 967.
Lillywhite, H.B. 3684.
Limberg, D. 227.
Lin, C.-F. 972.
Linck, R.W. 626.
Lind, M.D. 2133.
Lind, P. 2149.
Lindblom, L.L. 537.
Lindeman, R.C. 913, 1799.
Lindsay, D.B. 729.
Lindsay, D.F. 729.
Linn, C.E., Jr. 14, 1863.
Linn, J.J. 2750.
Linn, R.T. 3175.
Linwick, D. 2187.
Lipetz, V.E. 1205.
Lipp, H.P. 802, 1587.
Lipskaya, N.Ya. 342.
Lisgostayev, G.N. 4435.
Lorette, A. 799.
Liscia, A. 1902.
Lisitsky, A.V. 4435.
Lisk, R.D. 1053, 1319, 2340.
Lissak, K. 775.
Lissak, R.A. 3818.
Litovitch, E. 1314.
Littlefield, C.D. 2477.
Littlefield, V.M. 392, 1508.
Littlewood, A.P. 3641.
Litvin, V.Y. 3819.
Liu, G. 2888.
Liu, Y. 2458.
Livesey, D.J. 1783.
Livesey, P.J. 593, 1783, 2202, 4296.
Livingston, K.E. 71, 72, 73.
Livshits, M.K. 2981.
Ljungblad, D.K. 2309.
Lloyd-Evans, T.L. 3020.
Lloyd, H.G.H. 3266.
Lloyd, J.E. 28, 144.
Lobel, P.S. 2676.
Lobley, A. 576.
Lockfield, A. 3221.
Locuto, C.M. 1689, 1691.
Logan, C.A. 3552.
Logan, F.A. 3931.
Loher, W. 1292.
Lohr, W. 583, 2932, 3908, 3979.
Lomax, L. 1718.
Lombardi, R.T. 481.
Lombardo, M.P. 1378.
Lomuscio, G. 1606.
London, E.D. 845.
London, M.A. 1518.
Long, E.C. 123.
Long, J.P. 3325.
Longcore, J.R. 3534.
Longhurst, C. 1148.
Longo, J. 1378.
Lonovick, J. 579.
Looney, T.A. 1199.
Loop, M.S. 4087.
Lopez-Forment, W. 2492.
Lopez, G.R. 2613.
Lora, R.A. 3370.
Lorenz, J.F. 3297.
Lore, R. 1206.
Lore, R.K. 1212.
Lorenz, D.N. 3602.
Lorenz, K.Z. 4491.
Lorenzana-Jimenez, M. 1607.
Lorig, T.S. 1070.
Lose, G.S., Jr. 3443.
Lott, D.F. 3563.
Lottter, E.C. 932, 1033, 3741.
Louti, T.M. 4305.
Louti, R. 3719.
Love, M.S. 1456.
Lovell, K.L. 2075.
Lovvorn, J.R. 2838.
Low, W.A. 3350.
Lowe, A.R. 2733.
Lowe, E.L. 195.
Lowsky, L.F. 2759.
Lowther, P.E. 38.
Lowy, M.T. 2131.
- Loy, J. 1342.
Lu, Z.F. 21.
Luard, E.J. 3778.
Lubow, R.E. 1754.
Lucas, G.A. 1659, 1665.
Lucas, J.R. 2810.
Lucas, T.S. 984.
Lucchetti, G.L. 647.
Lucero, D.P. 4111.
Lucio, G.S. 1286.
Ludlow, A.R. 3332.
Luecke, C. 2667.
Luecker, H. 2286.
Luine, V. 4409.
Luine, V.N. 4406.
Lukas, S.E. 2171.
Lukaszcwka, I. 910.
Lum, A.M. 3796.
Lumia, A.R. 1328.
Lumpkin, S. 3550.
Luna-Martel, C. 3659.
Lundberg, A. 1297, 1983, 2701, 3548, 3813.
Lundberg, H. 2639.
Lupo di Prisco, C. 4411.
Luquet, G. 2264.
Lushekin, V.S. 1856, 4110.
Luttinger, D. 841, 4191.
Lyman, C.P. 773.
Lynch, C.B. 3592, 3848.
Lynch, F.J. 1512.
Lynch, G.R. 3828.
Lynch, J.J. 1226, 2221, 3351.
Lynch, M.R. 3930, 4238, 4321.
Lynn, A.G. 3101.
Lyness, W.H. 2164, 2169, 4360.
Lynn, A.G. 3265.
- M'Harzi, M. 3150.
Maag, U. 573.
MacArthur, R.A. 2863, 3627.
MacAulay, A.L. 2748.
MacCarone, A.D. 2743.
MacDonald, D.W. 2580, 2601, 3761, 3824.
MacDonald, K.B. 2916.
Mace, G.S. 4493.
MacFarlane, B.A. 2869.
Machado-Alisson, E.C. 307.
Machado, A.B.M. 2438.
Machida, T. 2376.
Machover Reinisch, J. 2334.
Mack, A.L. 1522.
Mack, G. 793, 2498, 4357.
Mackay, D.A. 2475.
Mackay, R.S. 45.
Mackay, W.A. 2870.
MacKinnon, J.P. 67.
Mackley, J.W. 16.
Macko, S.A. 1234.
MacLean, P.D. 1959.
MacLeod, N.K. 895.
MacLeod, P. 3084.
MacLusky, N.J. 3329.
MacMahon, S.W. 2151.
MacMillan, A.M. 2453.
MacMillan, B.W.H. 362.
MacNally, R.C. 1378.
MacPhail, R.C. 1724, 3224, 3239, 3964.
Macutus, C.F. 609, 4011.
Macy, K. 2603.
Madatova, J.R. 2019.
Maddison, S.P. 1970.
Maddison, W.P. 3671.
Madison, D.M. 2504.
Madjid, A.H. 1916.
Madafousek, J. 1323.
Maduka, N. 1498.
Maeda, H. 2683.
Maeda, N. 276.
Maehara, N. 1016.
Magalhaes, H.M. 1049.
Magaziner, A. 600.
Maggio, C.A. 3759.
Magomedov, M.-R.D. 3474.
Magyar, R.L. 1714.
Mahmoud, F. 1248.
Maho, C. 843.
Mahoney, B.M. 2351.
Mahut, H. 616.
Maickel, R.P. 1117, 3240, 3369.
Maier, C.T. 3510.
Maier, P.F. 1962.
Maier, S.F. 3972, 4121, 4477.
Mailman, R.B. 1039.
Mainardi, D. 1196, 2547, 3629.
Mainardi, M. 1596.
Maini, B.K. 2074.
Maiorana, V.C. 2602.
Majluf, P. 2901.
Makarewicz, J.C. 3772.
Maki, W.S. 1814.
- Makiguchi, N. 3049.
Makin, J.W. 1378, 3362.
Makino, Y. 340.
Maikukhina, G.V. 2955.
Maicarme, G. 2482, 3309.
Malagodi, E.F. 1714.
Malaval, F. 904.
Malchevsky, A.S. 3407.
Malcolm, G.P. 1841.
Malcolm, J.L. 737.
Malcolm, J.R. 2544.
Malcut, G. 1755.
Malec, D. 944.
Malinec, P. 1352.
Mallinson, J.J.C. 4439.
Mallow, G.K. 2343.
Malm, N.R. 295.
Malmo, P.F. 1093.
Malmstrom, F.V. 1879.
Malone, D.R. 724.
Malosomova, V.N. 1674.
Malsbury, C.W. 3570.
Mammen, D.L. 1171.
Manabe, K. 1918.
Mancia, G. 75.
Mancini, L. 4251.
Mandel, P. 4348, 4357, 4465.
Mandell, C. 538, 4010.
Mandenoff, A. 2114.
Manikowski, S. 4484.
Mann, G.L. 3112.
Mann, J.F.E. 411.
Mann, K.H. 2605.
Mann, M. 68.
Manning, A. 3565.
Manns, J.G. 3353.
Manson, M.D. 3843.
Manstaus, H. 1774.
Maple, T.L. 1355, 4492.
Maples, E.G. 1185.
Marangos, P.J. 1942.
Marc, M.E. 1992.
Marchallito, A.J.M. 1671.
Marchant, N.N. 260.
Marchant, S. 2327.
Marciloux, J.C. 1465.
Marcstrom, V. 1480.
Marcuella, H. 1649.
Mares, M.A. 2566.
Marfenin, N.N. 260.
Margolis, S.E. 4043.
Margules, D.L. 1502.
Marini, J.L. 1967, 2155.
Marino Piccoli, M.T. 2372.
Mark, R.F. 1323.
Mark, J.E. 1160.
Markl, H. 105, 3078.
Markovtsev, V.G. 1455.
Markov, T.A. 118, 1839.
Markovitsch, H.J. 903, 909, 4245, 4331.
Markovska, A. 910.
Markus-Kaufman, R. 983, 4386.
Marks, H.L. 361.
Marler, P. 1164, 3414, 3419, 3422.
Mariave, J.B. 155.
Marin, N.A. 351, 1789.
Marinski, V.V. 855, 920.
Marlow, R.W. 3682.
Maroli, A.N. 4264.
Marr, D. 1895.
Marrocco, R.T. 4442.
Marrou, P. 720.
Mars, D.P. 3904.
Marsden, C.D. 998, 3233.
Marsden, J.E. 3020.
Marsh, C.W. 517, 1576, 2765.
Marshall, B.S. 2930.
Marshall, D.A. 4111.
Marshall, J.A. 1454.
Marshall, J.F. 912.
Marshall, L.D. 123.
Martel, E. 2993.
Martel, G. 1553.
Martelli, A.M. 2741, 2748.
Martens, J. 43.
Martin, A.H. 4291.
Martin, A.P. 8, 2262.
Martin, C. 2481.
Martin, D.C. 3243.
Martin, G.C. 3988.
Martin, G.R. 4084.
Martin, J.C. 3243.
Martin, J.S. 397, 1961.
Martin, J.S. 3507.
Martin, P.H. 1079.
Martin, R. 1378.
Martinez, A. 2438.
Martinez, J.A. 438.
Martinez, J.R. 610, 3165.
Martino, M.R. 223.
Martino, C. 1623, 4085.
Martyniuk, J. 3514.
Marty, M. 3558.

- Manuhashi, T. 247
 Maruyama, Y.K. 3032
 Marz, R. K. 2074
 Marz, C. 3061
 Mascagni, O. 2588
 Mascarenhas, J.F. 3566
 Mascoetti, G.G. 591
 Maschkin, V.I. 3823
 Maschwitz, E. 58
 Maschwitz, U. 58
 Masek, K. 4390
 Mashiko, K. 2385
 Mason, J.R. 1787
 Mason, R. 1184
 Mason, S.T. 1974
 Massaro, T.F. 590, 3882
 Masserano, J.M. 3113
 Masson, C. 2259
 Mast, R.W. 2097
 Mastebroek, H.A.K. 4076
 Masterson, F.A. 1200
 Mastro, E. 3771
 Masurai, H. 200
 Matheny, E.L., Jr. 1426
 Mather, J.G. 668, 2245, 4036
 Mathers, I. 3283
 Mathews, S. 578
 Mathews, S.B. 2452
 Mathur, D. 2769
 Mathis, M. 661
 Matohchik, J.A. 3628
 Maton, A. 2219
 Matousek, J. 1323
 Matsumura, K. 3046, 3047, 3168
 Matsumoto, Y. 644, 1256, 1286
 Matsumura, F. 313
 Matsuo, R. 4123
 Matsuzaki, K. 340
 Matsuzawa, T. 2958
 Matthews, B. 1710
 Matthews, J.R. 224, 2429
 Matthews, M. 2501
 Matthews, M.K., Jr. 1210
 Matthews, R.W. 126, 224, 1262, 1543, 2420, 2429
 Mathys, H. 974
 Mattingly, B.A. 1720
 Matton, S. 271
 Maureira, J. 344
 Maun, Y. 1015
 Mauro, B.C. 3898
 Maurer, J. 3120
 Mauro, M. 2060
 Mauren, P.V. 3318
 Maxson, A.D. 2727
 Maxson, S.C. 2887
 Maxson, S.J. 2727
 May, B. 1768
 May, E.L. 2139
 May, M.L. 1870, 2804
 Maybury, C.A. 258
 Mayer, D.F. 2635
 Mayer, D.J. 4600, 4212
 Mayfield, D. 2130
 Maynard, D.J. 2824
 Mayor, G.H. 4295
 Mayr, M.Z. 3895
 Mazzeau, F. 4044
 Mazochin-Porshnyakov, G.A. 2963
 Mazur, J.E. 1721
 Mazurkiewicz, M. 2367
 McAllister, D.C. 3023
 McArdle, J.E. 806
 McArthur, D.T. 412
 McArthur, P.D. 2302
 McBrearty, D.A. 180
 McCaffery, A.R. 1280
 McCaffrey, T.A. 1098
 McCann, M. 2600
 McCann, N.V. 2600
 McCann, T.S. 1211, 2545
 McCann, D. 3994
 McCarthy, D.S. 946, 3265, 4375
 McCarty, R. 2231
 McCarty, R. 2989, 3366, 3743
 McCauley, D.E. 140, 2398
 McClesney, M.J. 3586
 McClanahan, L.B. 4002
 McClintock, J.B. 2616
 McClintock, M.K. 2506, 3576, 3578
 McClure, J.T. 1199
 McClure, M.S. 294
 McClure, P.A. 486
 McClurkin, J.W. 4442
 McConnell, P. 3122
 McConnell, S.K. 2175
 McCorkle, D.L. 2106
 McCormick, D.A. 1993, 4177, 4228
 McCort, W.D. 3479
 McCracken, K.M. 1822
 McCrae, A.W.R. 2434
 McCulloch, H. 3620
 McCurdy, N. 3425
 McDade, L.A. 3712
 McDermott, J. 1742
 McDevitt, J.T. 4385
 McDiarmid, R.W. 3615
 McDonald, A.C. 956
 McDougall, J.H., Jr. 4388
 McDonough, J.J. 1707
 McEachron, D.L. 1938
 McEaney, T.P. 2062
 McEwen, B.S. 1335, 4409
 McEwen, F.L. 3507
 McFarland, D. 4490
 McFarland, W.N. 3873
 McFarlane, I.D. 2023
 McGarrick, J.D. 623
 McGaugh, J.L. 610
 McGee, R. 2128
 McGill, T.E. 2483
 McGinn, M.D. 1923
 McGinty, D.J. 3111
 McGirr, S.J. 4184
 McGregor, P.K. 35
 McGrew, W.C. 3867
 McGroarty, S. 3716
 McGuffin-Clineschmidt, J.C. 1982
 McGuire, M.T. 807
 McHale, M.A. 4006
 McHargue, L.A. 2896
 McHewitt, E. 1105
 McIlhenny, H.M. 2097
 McKay, C.R. 2475
 McKay, J.M. 1033
 McKay, L.C. 932
 McKay, L.D. 3741
 McKay, K.R. 1462
 McKearney, J.W. 1032, 2071
 McKee, M. 3118
 McKeever, W.F. 617
 McKelvey, A.R. 1809, 2978, 4020
 McKim, W.A. 2069
 McKinley, M.J. 4232
 McKinney, F. 3551
 McKinney, W.T. 3179
 McLain, D.K. 110, 135, 1540
 McLamb, J. 951
 McLandress, M.R. 2571
 McLaughlin, C.L. 385, 3753
 McLaughlin, F.J. 212
 McLaughlin, J.R. 1246, 2273
 McLaughlin, P.J. 2914
 McLean, D.L. 2642
 McMillan, D.E. 2109, 4318, 4349
 McNair, E. 1037
 McNair, J.N. 1062
 McNall, C.L. 928
 McNeil, J. 2276
 McNeill, S. 1436
 McPherson, J.E. 1864, 1865
 McQueen, D.J. 431
 McRae, W. 510
 McRaney, L. 1944
 McSwaney, F.K. 1642, 1661
 McSwiggan, J.G. 1954
 Meade, R.P. 2086
 Meadows, P.S. 430
 Meaney, M.J. 886, 3365
 Means, L.W. 4305, 4387
 Mech, L.D. 3477, 3626, 3734, 3821
 Meck, W.H. 2972, 3999
 Medem, F. 2660
 Medin, D.L. 620
 Medved, R.J. 1454
 Meehan, T.E. 2725
 Meekings, J.S. 298
 Meekins, B.W. 1675
 Meervelt, E. 1083
 Meert, T. 4264
 Megens, A.A.P.H. 850
 Megryan, D. 4147
 Meibach, R.C. 973
 Meisler, G. 4178
 Meikle, D.B. 3642
 Meinwald, J. 1152
 Meisner, R.A. 556, 4432
 Meischner, I. 4137
 Meischner, V.I. 1936
 Meisel, R.L. 1328, 2181, 4244
 Meisenberg, G. 1038, 4405
 Meixner, A.J. 1219
 Meizeros, E.S. 601, 2981
 Melero, S.M. 2361
 Melis, M. 774
 Meliska, C.J. 4287
 Melizza, L.L. 2027
 Mellanby, J. 3163, 4023, 4190
 Mellen, J.D. 3641
 Mellgren, R.L. 3895
 Mello, N.K. 1025
 Melnyk, R.B. 1503
 Melville, G.N. 2915
 Menaker, M. 4139
 Menard, N. 3623
 Menefee, F.C. 3048
 Mendelsohn, F.A.O. 4202
 Mendelson, J.H. 1025
 Mendez, V. 4395
 Menlove, R.L. 2967
 Menon, N.K. 1612
 Mens, W.B.J. 2000
 Menzel, R. 3117
 Merai, Z. 4289, 4340
 Mercer, A.R. 3117
 Mercer, C.F. 298
 Mercier, P. 569
 Mengtan, W.H. 3941
 Menzel, A.D. 962
 Merkl, J.R. 90
 Merx, J.A.M. 2493
 Merriek, J.R. 2543
 Merrill, K.H. 1635
 Merrill, R.T. 649
 Merritt, P.G. 178
 Merritt, R.W. 289
 Merz, P. 1075
 Messent, P.R. 2965
 Messen, P. 2588, 2591
 Messier, F. 3836
 Messina, F.J. 2561
 Messing, R.B. 610, 4025
 Mestas, J.S., Jr. 4104
 Metcalf, G. 946
 Metcalf, R.L. 1836
 Metcalfe, J. 1619
 Metcalfe, M. 2559
 Meyer, M.A. 480
 Meyer-Rochow, V.B. 707, 3066
 Meyer, D.L. 3487
 Meyer, E.J.M. 2702
 Meyer, J.L. 3873
 Meyer, J.R. 4067
 Meyer, O.A. 859, 4339
 Meyer, P.P. 145
 Meyerson, B. 2921
 Meyerson, B.J. 943, 4380
 Meziel, M.O. 3570
 Michael Thorne, B. 3189
 Michael, R.P. 4420
 Michael, S.D. 2180, 2333
 Michaelson, I.A. 3241
 Michal, R.E. 917
 Michanek, A. 4380
 Michener, C.D. 2560
 Michener, G.R. 3631
 Micic, D. 997
 Middaugh, D.P. 1294
 Middaugh, L.D. 1609, 2111, 3227, 3245
 Middendorp, S.M. 1482
 Midgley, G. 1614
 Midgley, G.C. 3203
 Midgley, S.H. 2450
 Miele, J. 3880
 Miezyn, F. 723
 Mikheev, A.V. 4053
 Mikkonen, A. 3012
 Mikulich, L.V. 4130
 Mikulka, P. 2947
 Mikulka, P.J. 3986
 Milard, W.M. 1351, 2331
 Millard, W.J. 1653
 Miller Case, V. 1222
 Miller, A.C. 1403, 2624
 Miller, B.N. 2695
 Miller, D. 4145
 Miller, D.B. 508, 4294, 4313
 Miller, E. 88, 375
 Miller, D.J. 2364
 Miller, F.L. 241, 3598
 Miller, G.V. 1884
 Miller, H.L. 1756
 Miller, H.L. Jr. 1727
 Miller, J.D. 2010, 4005
 Miller, J.R. 11, 634, 638, 642
 Miller, J.T. 3216
 Miller, J.T. 3213
 Miller, K. 691
 Miller, L. 1639
 Miller, L.A. 48
 Miller, L.C. 1628
 Miller, M.G. 408
 Miller, M.H. 876
 Miller, P.A. 4314
 Miller, R.S. 531, 1682, 1803, 2941, 3937, 3961
 Miller, S. 1634, 3971
 Miller, V. 1749
 Miller, W.J. 3846
 Mills, A.C. 3547
 Mills, A.E. 2626
 Mills, N.J. 2644, 3508
 Milne, C.P. Jr. 3785
 Milne, G.M. 2097
 Milne, J.A. 4223
 Milner, P.A. 4260, 4262
 Milton, K. 417
 Mineka, S. 582, 1103, 1379, 1634, 3971
 Minoda, K. 3047, 3168
 Minot, E.O. 1307
 Minsker, D.H. 4324
 Minz, M. 739, 2060, 2243
 Mintzer, A. 3380
 Mintzer, A.C. 3513
 Miranda, J.T. 1411
 Mironov, S.V. 762
 Misky, M. 1703
 Misawa, T. 2089
 Mishkin, M. 3208
 Misra, S.D. 3027
 Misra, U.S. 2435
 Mississin, R. 2085, 4224, 4240, 4465
 Misulis, K.E. 4201
 Misuraca, A. 3955
 Mitani, K. 3275
 Mitchell, C.L. 4277
 Mitchell, D. 1506
 Mitchell, D.E. 3059
 Mitchell, D.S. 1098
 Mitchell, E.R. 712, 1132
 Mittelbach, G.G. 2672, 3654
 Mittermeier, R.A. 2660
 Mittler, J.C. 2236
 Miyagawa, M. 3965
 Miyahara, Y. 132
 Miyake, H. 1016
 Miyake, S. 1242
 Miyamoto, K. 3358
 Miyamoto, M.M. 32
 Miyachi, T. 2094
 Mizell, R.F. 1187
 Mizuguchi, Y. 2877
 Moal, M.L. 3196
 Moberg, G.P. 1620, 3348
 Mock, E.J. 2178
 Moctezuma, M.A. 746
 Modahl, K.B. 79, 3460
 Modaresi, H.A. 3834
 Modlin, P.D. 1675
/>
 Moe, K.E. 1965, 4393
 Moeller, A.P. 3810
 Moeller, E. 2550
 Moeller, W. 2705
 Moermond, T.C. 2574, 3685
 Moerschbaecher, J.M. 2124, 3280
 Mogensen, J. 4171
 Mogenson, G.J. 942
/>
 Mogilnicka, E. 1946
 Mohan, B.M. 1874
 Mohan, M. 2859
 Mohin, G. 899
 Mohneke, R. 3070
 Mohs, M. 3882
 Mokler, D.J. 3460
 Molayem, O. 3934
 Moline, M.L. 3105
 Molinengo, L. 3231
 Moller, H. 1225
 Moller, P. 3397
 Moller, D.W. 2204
 Moltz, H. 2025
 Monaghan, P. 359
 Mondher, H. 525
 Monmaur, P. 1947, 3150
 Montanari, M.F. 4204
 Montanari, M.F. 862
 Montecchi, V.A. 2743
 Montgomery, A. 993
 Montgomery, R.A. 1107
 Montoya, C.P. 1507
 Moon, R.D. 439, 448
 Mooney, M.P. 2912
 Moorcroft, W.H. 2224
 Moore-Ede, M.C. 3105
 Moore, D. 3034
 Moore, D.L. 3086
 Moore, L. 1903
 Moore, J.D. 400, 1944
 Moore, J.W. 3950, 4233, 4353
 Moore, K.E. 2164, 2169, 4360
 Moore, M. 1718
 Moore, N. 978
 Moore, S.A. 4122
 Moran, E.C. 3179
 Moran, G.G. 3446
 Moran, T.H. 2048
 Morato de Carvalho, S. 2162
 More, T. 383
 Moreau-Sherill, D. 1222
 Moreland, J.W. 1635
 Moran-Black, G.S. 2768
 Moreno, J. 1481, 2701
 Morgan, B.L.G. 522
 Morgan, E. 4135
 Morgan, E.D. 2270
 Morgan, R.F. 1717
 Morgantini, L.E. 2865
 Morgan, D.G. 2004
 Mori, A. 2317
 Mori, J. 979
 Mori, K. 23, 2261
 Morishima, J.M. 896
 Morimoto, H. 575
 Morin, R. 648
 Morishita, M. 1687
 Morita, N. 402
 Moriwaki, S. 534, 2929
 Morley, J.E. 1969, 1999, 2999, 4164, 4377, 4408, 4478
 Morne, P. 1348, 3315
 Morley, J.E. 2719
 Morris, G.K. 143
 Morris, J. 1952
 Morris, M.M.J. 3540
 Morris, S.M. 2719
 Morrison, A.R. 3114
 Morrison, D.W. 1320
 Morrison, K.A. 1558
 Morrison, N.H. 2798
 Morrison, S.H. 1320
 Morrow, G. 734
 Morrow, M.E. 1482
 Morrow, T.J. 1074
 Morse, D.H. 273, 2689
 Morton, A.R. 1262
 Morse, W.H. 4216
 Mortola, J.P. 315
 Morton, E.S. 3420
 Morton, J.R.C. 2292
 Morton, M.L. 2293
 Moser, V.C. 3252
 Moses, J.L. 1270
 Moss, L.J. 2049
 Mosher, J.A. 474
 Moskalaki, N. 4324
 Moss, C.J. 3459
 Moss, M. 616
 Moss, R. 178, 2326
 Moss, R.L. 1339
 Mosting, T. 190, 3597
 Mostofsky, D.J. 2002
 Mote, M.L. 752
 Mott, G.E. 808
 Mottershead, B.E. 2221
 Moulton, D.G. 4116
 Moulton, D.W. 2474
 Mow, D.R. 4232
 Movchan, E.V. 669
 Movchan, V.N. 3432
 Mower, G.D. 3057
 Mowforth, P.H. 1072
 Mower, R.R. 1822
 Moyer, T.B. 1809, 2968, 4121
 Moyer, J.T. 228
 Moyle, D.L.J. 2358
 Moynia, W. 2523
 Mucha, R.C. 950, 4378
 Mueller, H.A. 1321
 Mueller, H.F. 2530
 Mueller, K. 4476
 Mueller, N.S. 2530
 Mueller, R.A. 1039
 Mueller, W.J. 350
 Mufson, O.T. 1499
 Mukhametov, L.M. 3109
 Mukhin, E.I. 858
 Muller-Schwarze, C. 2232
 Muller-Schwarze, D. 2232
 Muller, M. 3697
 Mulvaney, D.E. 1773
 Munce, S.J. 50
 Mundt, W.J. 1093
 Munoz, C. 3151
 Munteanu, D. 661
 Muraibayashi, K. 2823
 Muraishi, S. 2929
 Murai, M. 2623
 Murai, T. 2832
 Muramoto, K.I. 872
 Muran, G. 4290
 Murata, M. 2384
 Murie, J.O. 3424
 Murphey, R.M. 2227
 Murphy, G.M., Jr. 3154
 Murphy, J.T. 870
 Murphy, M.R. 953, 1879, 1959
 Murphy, S.T. 3784
 Murray, B.G. 2354
 Murray, B.G. 504
 Murray, D.W. 1105, 1675
 Murray, M.G. 240
 Murray, R.B. 2190
 Murrell, D.C. 303
 Murtough, J. 187
 Murtough, P.A. 266, 1394
 Muruyama, Y.K. 672
 Murzi, E. 2046, 4198
 Musty, R.E. 3288
 Mustumeci, D. 4083, 4220
 Murzeva, E.A. 1814
 Myers, D.E. 1517, 2937, 3925
 Myers, J.P. 507, 3703, 3812
 Myers, M.M. 3288
 Myers, P. 2900
 Myers, R. 1220
 Myers, R.D. 4314
 Myerson, J. 723
 Myoga, K. 415
 Myslinski, N.R. 3125
 Myslobodsky, M. 2243
 Myslobodsky, M.S. 739, 2006
 Naber, D. 1942

- Nabeshima, T. 966
Naccari, P. 834, 925, 4218.
Nadeau, J. H. 481.
Naderzhin, D.S. 2973
Nadler, R.D. 1355, 1628
Nafolin, F. 3329
Nagai, J. 1094
Nagai, T. 1904
Nagasaki, M. 4392
Nagasaki, N. 852
Nagata, Y. 3347.
Nahmood, V.E. 905
Naidu, B.P. 749.
Naim, M. 4093.
Nair, J.R. 1458
Nair, N.B. 1458
Nairne, J.S. 540
Naish, S.I. 1048
Najum, N. 2150
Nakajima, S. 2057
Nakamura, K. 12, 1017.
Nakanishi, H. 70.
Nakano, S. 992.
Nakasone, Y. 2623.
Nams, V.O. 4472.
Nance, D.M. 900
Nancy, T. 74
Narins, P.M. 3395.
Nash, R.F. 936
Nash, W.T. 303.
Nastase, A.J. 4059.
Nasu, Y. 370.
Nasr, N. 1408.
Natselton, B.H. 118, 2231, 2236.
Nation, J.R. 3891.
Naumenko, E.V. 3849.
Nausieda, P.A. 3289.
Navarro, T.M. 4003, 4014, 4022.
Nayfield, K.C. 1924.
Naylor, R.J. 3149, 4207.
Naylor, V. 1617.
Neale, R.J. 3745.
Nebecker, T.E. 1867.
Neelakantan, B. 1530.
Neff, J.L. 311.
Negayama, K. 1358, 3574.
Neideffer, J.D. 3997.
Neill, R.L. 374.
Neistadt, L. 4384.
Nel, J.A. J. 3756, 3881.
Nelson, B.K. 4310, 4325
Nelson, M.E. 3626
Nelson, R.J. 760
Nelson, W. 4436.
Nemeroff, C.B. 1002, 4191.
Nemuroff, A. 150.
Nemoto, H. 12.
Neophytou, C. 1489.
Nepomniashchikh, V.A. 3777.
Nerez, D.R. 3444.
Nesbit, J.C. 1614.
Neto, J.P. 937.
Nettes, W.C. Jr. 637.
Neudecker, S. 2681.
Neubaus, W. 4108.
Neumeier, C. 1885.
Neuhof, J.A. 538, 3992.
Nevo, E. 509, 3977.
Newby-Schmidt, M.B. 3337.
Newlin, R.J. 2933.
Newman, A.L. 2471.
Newman, E.R. 3444.
Newman, J.D. 2315.
Newsome, H.H. 4160.
Newsome, W.T. 1896.
Newton, D.A.K. 936.
Nexoe, E. 3124.
Nicholas, T. 3968.
Nichols, K. 2136.
Nichols, J.D. 1333.
Nichols, M.B. 1650.
Nicholson, A.N. 2081.
Nicholson, H.H. 3353.
Nickolson, V.J. 987, 3310, 4025.
Nicoll, J.A.C. 1234.
Nicolaides, S. 254, 4180.
Nicoll, M.E. 4473.
Niehaus, M. 3035, 3036.
Nielsen, E.B. 2143.
Niemegeers, C.J.E. 3220.
Nijssen, A. 3755.
Nikiforov, A.F. 981.
Nikitin, V.S. 618.
Nikolaites, M. 1206
Nikolskaya, K.A. 3940.
Nikulina, E.M. 1515.
Nil, R. 1786.
Nilson, G. 4104.
Nilsson, D.E. 3050.
Nilsson, H.L. 3050
Nilsson, N.A. 2321.
Nishi, T. 3053.
Nishikawa, T. 852
Nishimura, W. 3053.
Nishino, H. 872.
Nishitani, J.K. 1329.
Nishizawa, Y. 4189
Nistico, G. 834, 925, 4218.
Niyazov, O.D. 2814
Niyazov, D.L.G. 1583, 2882
Noble, R.G. 4344.
Nobrega, J.N. 2191.
Nohr, D. 1853.
Noka, K. 340.
Noland, E.A. 4299.
Nolen, T.G. 1977.
Nonnenman, A.J. 2029, 2035.
Noordink, J.P.W. 1837
Nordberg, A. 938
Nordeen, E.J. 3320.
Nordlund, D.A. 18.
Norgaard-Nielsen, G. 784
Norgren, R. 568, 1510.
Norikoshi, K. 3765
Norman, J.L. 1736
Norman, W.D. 1642.
Norris, J. 1689.
Norris, K.S. 2581.
Norris, M.L. 1330.
Norrsell, U. 1983.
North, R.C. 1219, 3467.
Northcote, T.G. 2321, 3009, 3693.
Norton, P.M. 2311.
Norton, S. 3337.
Nosal, R.E. 2720.
Nottebohm, F. 782, 811, 833, 2299.
Onguier-Soule, J. 904.
Ohtsuka, T. 2376.
Novacki, M. 3636.
Novas, W.C. 2227.
Novak, M.A. 1336.
Novelle, P.A. 3426.
Novotny, S. 4112.
Novin, D. 397.
Nowak, A. 4074.
Nowicki, S. 1171.
Nowitz, R.F. 3625.
Nozato, K. 1253.
Nozakawa, Y. 2828
Nuechterlein, G.L. 172, 2526.
Nunez, A.A. 1182, 4415.
Nunez, J.A. 2651.
Nursall, J.R. 2352.
Nyberg, J. 1182.
Nyfeler, M. 2611.
Nyfeler, V.M. 440.
Nyhan, W.L. 4476.
O'Brien, M. 2153.
O'Brien, M.F. 1060, 1552, 2518.
O'Brien, P.H. 1505.
O'Brien, R.C. 773.
O'Brien, W.J. 2667.
O'Connell, B. 733, 1444, 1445.
O'Connell, B. 733, 1444, 1445.
O'Connell, M.E. 2930, 3723, 3905.
O'Connell, M.E. 1301, 1365.
O'Connor, S. 212.
O'Connor, S.M. 2314.
O'Donnell, V. 1198.
O'Donoghue, T.L. 4325.
O'Garra, B. 3137.
O'Hanlon, J.K. 2181.
O'Leary, D.K. 2974.
O'Mara, P.A. 1683.
O'Neill, D.S. 1482.
O'Neill, K.A. 4460.
O'Shaughnessy, M. 4378.
Oace, S.M. 1513.
Oades, R.D. 2037, 2965.
Oakes, W.F. 3935.
Oakley, D. 1706.
Oakley, D.A. 907, 2943, 4026.
Obata, S. 3499.
Oberdieck, F. 1728, 3977.
Oberdieck, F.G. 3929.
Oberstler, R. 1377.
Obukhova, N.Y. 3538.
Ochanian, M.D. 128.
Ochiar, A. 2828.
Ochieng, R.S. 103.
Oda, K. 1134.
Oda, Y. 3168.
Oden, B.G. 4166.
Odio, M. 1116, 3240, 3369.
Odling-Smee, F.J. 2873.
Oegren, S.O. 1827, 1990, 4288, 4389.
Oehschlager, A.C. 2638.
Oei, T.P. 2121.
Oei, T.P.S. 4153.
Oester, P.T. 1270.
Offor, I.I. 111.
Ogasahara, S. 770.
Ogasawara, T. 3091.
Ogawa, N. 992.
Ogawa, T. 534, 2929.
Ogawa, Y. 2449.
Ogden, J.C. 2676.
Ogilvie, D.M. 4291.
Ohigashi, H. 313.
Ohno, T. 415.
Ohsawa, H. 3639.
Okamoto, M. 2832, 4286.
Okoye-Owuor, J.B. 103.
Okhotsky, Y.V. 3819.
Okhotov, S.N. 436.
Okuda, H. 4489.
Okuda, Y. 3347.
Olders, J.H.J. 732.
Oldfield, B.P. 1908, 3066
Olds, M.E. 2142, 3172, 4170.
Olive, C.W. 3665.
Oliver, W.L.R. 2314.
Olivera, J.M. 567, 613, 863, 864.
Oliverio, A. 2119, 4479.
Oliver-Aardema, R. 52.
Olla, B.L. 156, 2621, 3373.
Olugun, A.G. 182.
Olson, K.L. 3317.
Olson, D. 553, 1814.
Olson, G.A. 2156.
Olson, G.C. 824.
Olson, L. 896.
Olson, R.D. 2156.
Olson, P.K. 4074.
Olson, D.S. 595, 1829, 2040, 3166, 4236.
Omedes, A. 3643.
Ono, T. 124, 872, 2009.
Onyiah, J.A. 319.
Opama, Y. 2009.
Opabow, V.R. 3432.
Oppenheimer, J. 522.
Opshalova, Z. 3158.
Orchal, R.D. 107.
Ordal, G.W. 4032.
Orlov, S. 4112.
Orgeur, P. 2491.
Orgini, E. 4173.
Orsani, G.H. 2597.
Oring, L.W. 3536.
Oristland, N.A. 3045.
Orsini, D.P. 3830.
Orlov, V.M. 3040.
Orlova, N.V. 571.
Orme, N.J. 2222.
Orstein, K. 1575, 3299, 4255.
Orstman, L.N. 629.
Orsini, E. 3161.
Ortmann, R. 792.
Osadchuk, A.V. 3849.
Osaka, M. 2384.
Osborne, T.O. 1565.
Osman, E. 4099.
Osse, J.W.M. 3697.
Ostrowski, N.L. 955, 4344.
Ostwald, R. 575.
Otero, J.M. 563.
Oth, D. 2201.
Otnaway, E.M. 469.
Ott, D.K. 483.
Ouellet, G. 3774.
Ough, W.D. 3433.
Overal, W.L. 1554.
Overman, W. 2056.
Ovrum, J.R. 1752, 2187.
Owen, M.J. 619.
Owen, R.B. Jr. 3534.
Owens, D.W. 2906.
Owens, R.D. 1573.
Owings, D.H. 2312.
Oxnard, C.E. 806.
Oya, S. 1439.
Ozawa, Y. 1017.
Ozoga, J.J. 2488.
Ozon, C. 384, 1514.
Pacitti, C. 3157.
Packer, C. 3829.
Page, C.H. 3135.
Page, T.L. 4149.
Page, W.M. 1142, 1280.
Pager, J. 1986, 4122.
Pain, J. 3389.
Paisley, A.C. 3677.
Pajunen, I. 1943.
Pajunen, V.I. 3609.
Pakovich, B.I. 2928.
Palanchanmy, S. 3807.
PalFREYMAN, M.G. 4391.
Pallas, S.L. 1976.
Pallaud, B. 1201.
Palm, L.J. 3893.
Palmer, A.R. 2773.
Palmer, M.J. 2723.
Pamilo, P. 3838.
Panagis, K. 3881.
Panakova, E. 3636.
Panaman, R. 3865.
Pandazis, C. 782.
Pang, Y.S. 3515.
Panico, A. M. 4290.
Panizzi, A.R. 438.
Panken, K.J. 2484
Panksepp, J. 49, 785, 2150, 2233, 3116.
Panner, L. 948.
Panov, E.N. 3411, 3587, 3853.
Pantelev, S.S. 860.
Panayashkin, S.N. 3468.
Papafargios, E.D. 773.
Papageorgiou, N. 1489.
Pappasava, M. 2121.
Papi, F. 663, 3022.
Paramanandhan, K. 2539.
Parish, L. 1832, 2372, 2891, 2995.
Parent, E. 4324.
Pardi, T. 1497, 2755.
Parisi, T. 1615.
Parker, F.D. 1539, 1542.
Parker, G.A. 59.
Parker, H.B. 1750.
Parker, L.A. 4320.
Parker, M.A. 2790.
Parker, P.G. 2530.
Parker, S.M. 4241.
Parker, S.M. 4016.
Parmegiani, P.L. 921.
Parmigiani, S. 1193, 2317, 3452, 3629.
Parrott, J. 3721.
Parrott, R.F. 927.
Parsons, B. 1335, 3329.
Parsons, J.A. 1831.
Parmenter, R.R. 3683.
Partridge, B.L. 2570.
Parzefall, J. 4107.
Pasanello, E. 4065.
Pascual, M. 179.
Pascoe, J.P. 928.
Pasquali, A. 3629.
Passarelli, F. 4333.
Pate, D.H. 1657.
Passingham, R.E. 2061.
Passmore, N.I. 1153, 1155, 3396.
Passmore, N.A. 3119.
Patel, A.J. 3263.
Patel, B.H. 3357.
Patel, N.M. 1392.
Pateron, H.E.H. 2432.
Pateron, I.W. 2215.
Pattina, N.A. 1572.
Patterson, C.B. 505.
Patterson, D.J. 1400, 3031.
Patterson, I.J. 2528.
Patterson, J. 1752, 2187.
Patterson, R.S. 447.
Patterson, T.L. 1167, 1630, 2357, 3892.
Paul, C. 3942.
Paul, R.K.G. 2614.
Paul, S.M. 3312.
Pavlova, E.Y. 3556.
Pawde, V.A. 2213.
Paxinos, G. 2153.
Pay, R.G. 3131.
Payn, W.H. 2718.
Payne, R.B. 1165, 1798, 2292, 2303.
Payne, S. 2777.
Payne, M.J. 2261.
Peacock, E.J. 3833.
Pearson, A.J. 1226.
Pearson, D.L. 2632, 2802.
Pearson, J. 1407.
Pearson, W.H. 2189, 2621.
Pebbles, P. 1807.
Peck, C.K. 3058.
Peckham, D.J. 2416.
Peckover, W.S. 44.
Pedersen, E.B. 2329.
Peek, H.V.S. 343, 3223.
Peek, S.C. 3223.
Peel, H.H. 1098.
Peelle, D.B. 1748.
Pellens, M. 2305, 2363.
Pellis, S.M. 4471.
Pellis, S.M. 1108.
Pelton, M.R. 2854.
Penak, B.L. 3540.
Pendergrass, M.L. 1590.
Pendrill, B.A. 308.
Penke, B. 930.
Penner, R.H. 3085.
Penrose, J.D. 3066.
Penzlin, H. 836.
Perachio, A.A. 1059.
Percival, H.F. 1333.
Perdue, V.P. 413.
Pereira, L.B. 225.
Perez, T. 2905.
Pereyra, M.E. 2293.
Perez, R. 158.
Perhach, J.L., Jr. 1031.
Perkins, A. 2507.
Perrigo, G. 3429.
Perrin, S.A. 2448
Perrin, M.R. 1567.
Perrins, C.M. 35.
Perrone, M.J. Jr. 2298.
Perrot, J. 954.
Perry, M.C. 1089, 4425.
Perry, M.L.S. 1997.
Perry, W. 2001.
Perryman, K.M. 729.
Persaud, S. 3955.
Persinger, M.A. 837.
Persson, B. 1985.
Pesaro, M. 3075.
Pessotti, F. 2925, 2960, 2961.
Peterson, E.N. 3286.
Peterson, L.R. 2225.
Peterson, S.E. 1896.
Peterson, S.H. 3903.
Peterson, J.L. 3896.
Pettit, T.L. 3228.
Petty, T.N. 1126.
Petralia, A. 2782, 3037.
Petrakova, J.W. 3524.
Petrides, M. 4250.
Petronovich, L. 1167, 1630, 2357, 3892.
Petros, T.V. 1709.
Petros, E.S. 577.
Petrei, A. 3861.
Petrujohn, T.F. 576.
Petty, F. 1950.
Pfaff, D.W. 1335.
Pfleiffer, W.J. 280.
Pfeiffer, E. 1334.
Pflueger, H.J. 688.
Phamm, W. 2272, 3413.
Pham, M.H. 3389.
Phaneuf, J. 4028.
Phanthumachinda, B. 2417.
Phelps, C. 526, 900.
Phelps, C. 526, 900.
Phillips, A.G. 956, 1029, 2118, 3294, 4258.
Phillips, N.H. 1945.
Phillips, R.E. 783.
Phillips, R.B. 2830.
Phillips, S. 1684.
Philpott, C. 3986.
Phoenix, C.H. 2511, 2513.
Pi, J.S. 3867.
Pianka, E.R. 1559.
Picard, M. 3915, 4284.
Pickett, J.A. 8, 2262.
Picman, J. 1311, 3445.
Picozzi, N. 348.
Pierce, H.D. Jr. 2638.
Pierce, V. 3067.
Piercy, M.F. 926.
Pietra, P. 1902.
Pietruszka, C.J. 3681.
Pietruszka, R.D. 3681.
Pihl, R.O. 4300.
Pilon, J.G. 2430.
Piracki, D.G. 4424.
Pinel, J.P.J. 2160, 3932.
Pineschi, F. 4056.
Pinsker, H. 4182.
Pinsky, C. 3284.
Pinter, A. 2654.
Pionik, M. 1897.
Pionkovsky, S.A. 2620.
Pisa, M. 2039.
Pisacreta, R. 1723, 3918, 3942.
Pitcher, K.W. 1495, 3023.
Pitchford, L.J. 730.
Pitelka, F.A. 3703.
Pitre, H.N. 2627.
Pitts, E. 3965.
Platt, J.R. 547.
Plaznick, A. 970.
Plechanov, G.F. 3040.
Plimpton, E.H. 1386, 2590.
Pliskoff, S.S. 1652, 1662.
Plotkin, H.C. 2873.
Plowman, K.P. 1549.
Plowright, R.C. 308, 3671.
Plummer, M.R. 1906.
Plummer, M.V. 327, 3800.
Poche, R.M. 2899.
Poggio, T. 706, 713, 827.
Poggioli, R. 3230.
Pohl-Appel, G. 3415.
Pohl, R.W. 1737, 3958, 3960.
Pohorecky, L.A. 4427.
Poinar, G.O. Jr. 3776.
Pondron, P. 203.
Pooleteva, I.I. 1111, 3850.
Polgar, S. 2016.
Poling, A. 2012, 3915, 3975, 4284, 4383.
Poling, A.D. 533.

- Pollak, G.D. 801
 Pollard, T. 2144
 Pollock, J.D. 2141
 Polonskaya, A.E.L. 3172
 Polyreva, T.E. 577
 Polunin, N.V.C. 2350
 Polyakova, I.G. 3109
 Polyakova, N.N. 924
 Polynova, G.V. 3394, 3468
 Pomerantz, S.M. 3323
 Pond, E.K. 1632
 Ponomareva, L.A. 671
 Pons, C. 871, 3126
 Pook, A.G. 1380
 Pook, G. 1380
 Poole, J.H. 3459
 Poole, T. 2856
 Pope, G.S. 3326
 Pope, S.G. 3202
 Popko, R. 371
 Popov, N.V. 1144
 Popova, N.Y. 1111
 Poppeimann, B. 166
 Popper, A.N. 3073
 Port, J.-C. 622
 Porte, D. Jr. 932, 1033, 3653, 3741
 Port, S.G. 374
 Porter, J.H. 1707, 1784, 3930, 4238
 Porter, K. 2816
 Porter, R.H. 400, 1373, 3628
 Port, S.D. 1362, 1423, 2646
 Posthvalov, V.P. 1204, 2335
 Potts, I. 2331
 Possidente, B. 3848
 Post, R.M. 3221
 Post, W. 420
 Potegal, M. 883
 Potel, M.J. 3796
 Potter, D.M. 1619
 Potter, R.M. 392
 Pottinger, H.J. 1581
 Pottle, R.A. 153, 2605, 2778
 Potts, G.W. 1463
 Pough, F.H. 287
 Poulet, S.A. 3774
 Pough, C.X. 2145
 Poulsen, K. 2329
 Pounds, D. 717
 Povar, M.L. 1797
 Powell, A.L. 1753, 2936, 4249
 Powell, G.V.N. 3586
 Powell, R.W. 585, 3893
 Power, H.W. 1314
 Powersland, R.G. 360, 1860
 Poznanski, D. 1916
 Pradhan, S.N. 1295
 Prakash, I. 3688, 3428
 Prakhie, I.B. 4345
 Prange, A.J. Jr. 1002, 3179, 4191
 Prasad, V. 2140
 Precelt, J. 1705
 Predy, P.A. 1003
 Premack, D. 1804, 2982
 Premack, M. 1647
 Preobrazhenskaya, L.A. 922
 Prestes, P. 355
 Pressley, P.H. 3584
 Preston, C. 2540
 Preston, C.R. 1872
 Preston, K.L. 3763, 3281
 Preston, M. 1647
 Preston, T.M. 630, 676
 Prestudde, A.M. 2242
 Preziozo, J. 2388
 Price, E.O. 2211
 Price, T. 87
 Prince, H.H. 3704
 Prinzinger, R. 163
 Prior, D.J. 747
 Prichard, W.S. 2052
 Pritzel, M. 3191
 Procter-Gray, E. 513
 Proffitt, R.R. 1071
 Prokop, P. 3725
 Prokopy, R.J. 1310, 1901
 Proper, K.J. 205, 206
 Prot, J.C. 621
 Provine, R.R. 1873, 3043
 Provodina, V.N. 1674
 Prowse, J. 4266, 4273, 4275
 Prowse-Hochstetler, A. 104, 225
 Pryke, M.M. 2228
 Pryor, F.L. 250
 Pschowski, O. 970
 Puckett, D. 1550
 Puch, A.J. 1015
 Pugh, J.L. 2152
 Pugliese-Allegria, S. 2119
 Pulley, P.E. 1238
 Pulliainen, E. 2694, 3480
 Pullinbawa, R.K.W. 3383
 Puopolo, M. 1795, 1796
 Purcell, D.G. 1897
 Purcell, J.E. 2768
 Purdy, E.J. Jr. 2769
 Purushotham, K.R. 749
 Pusey, A.E. 3829
 Pushpavai, C.P. 2105
 Pycock, C.J. 947
 Pyke, G.H. 1486, 2630, 2691, 2692
 Quartermann, D. 3363
 Quere, J.P. 2365
 Quinn, T.P. 647, 649
 Quinn, W.G. 561, 3844
 Quinney, K.R.S. 2695
 Quinney, T.E. 2695
 Quince, C.M. 1117, 3240, 3369
 Quince, C.M. 1116
 Quicke, R.M. 984
 Qums, R. 498
 Raab, A. 1045
 Raajmakers, J.G.W. 1061
 Raana, K. 1248
 Rabb, R. 1526
 Racagni, G. 4173
 Racciam, A. 567
 Radcliffe, W. 733, 1444
 Radford, P. 4086
 Radulovacki, M. 980, 3303
 Rafales, S. 3241, 4306
 Rafia, K.F. 3000
 Raiger, D.R. 1140
 Raghuipathi, M. 749
 Rai, U.C. 2859
 Raina, A.K. 1252, 2884, 3093
 Raiagopal, D. 2633
 Rajek, D. W. 3444
 Raleigh, M.J. 807
 Ralph, C.L. 753
 Ramaswamy, S.B. 1275
 Ramos Costa, F.B. 1603
 Ramos, A.R. 2661
 Ramsey, J.S. 2454
 Rana, B.D. 3959
 Ranck, J.B. Jr. 4194
 Rand, A.S. 2581, 3859
 Rand, D.M. 2678
 Randall, D.C. 1766, 2229
 Randall, J.A. 3308
 Randall, W. 1939
 Randlich, A. 1638
 Randle, R.J. 1879
 Rands, G. 3163, 4190
 Rangswamy, H.R. 2381
 Rankin, M.A. 3034
 Ranney, M. 1869
 Ranta, E. 3595
 Ranta, E. 2639
 Rapisarda, E. 4290
 Rascher, W. 411
 Rasbott, M.E. 2930, 3723, 3905
 Raskan, L.A. 1209, 2132, 4225
 Rasmussen, D.D. 3318
 Rasmussen, D.R. 1233, 1381
 Rastogi, R.B. 849
 Rathor, H.R. 1248
 Rathore, A.K. 1854
 Ratnikova, O.A. 185
 Rattan, K.S. 2905
 Ratt, J. 479
 Rauschenberger, J. 3982
 Raveling, D.G. 2456, 2571
 Rawlins, J.E. 2813
 Rawlins, J.N.P. 4236
 Rawlyk, K. 4202
 Raworth, D.A. 1428
 Ray, A. 988
 Ray, R.T. 1522
 Reading, C.J. 3716
 Readshaw, J.L. 1835
 Real, L.A. 1414
 Reavill, C. 998, 3233
 Reboulleau, C. 1301, 1365
 Rech, R.H. 1606, 2134, 2164
 2169, 4295, 4360
 Reddish, P.E. 3055
 Reddy, D.N.R. 2890
 Redd, M.V. 2788
 Redfern, P.H. 3103
 Redgate, E.S. 788
 Redgrave, P. 1988, 3202, 4267
 Reed, D.F. 490
 Reed, G.F. 3238
 Reed, H.C. 2564, 3610
 Reed, J.K. 157
 Reed, J.R. 2537
 Reed, L.E. 1879
 Reed, T.M. 2290
 Reese, J.C. 295
 Reeves, T.M. 4089
 Regan, B. 2980
 Regan, D. 3572
 Regan, S.G. 4482
 Regnier, J. 1526
 Rego, S. 1814
 Rehberg, G. 552
 Reich, L.M. 236, 2330
 Reichardt, W. 706, 827
 Reichert, H. 3134
 Reiche, D. 1176
 Reiche, R. 381
 Reichenman, O.J. 2368
 Reid, D.G. 1835
 Reid, H.M. 4070
 Reid, L.D. 1995, 2065, 2133, 4329, 4344
 Reidelberger, R. 4433
 Reilly, P.N. 171
 Reinstein, D.K. 698
 Reisen, W.K. 1248
 Reite, M. 527
 Reiter, J. 2484
 Reiter, L.W. 2100, 3248, 4316
 Reiter, R.J. 758
 Revich, M. 857
 Renous, S. 1876
 Renshaw, M. 4190
 Renzi, P. 2084
 Rescorla, R.A. 540, 1641, 1655, 2931, 2934
 Resh, V.H. 1282
 Revich, M. 874
 Revusky, J. 3737, 3958, 3960
 Reyes, J. 2222
 Reynolds, J.D. 3547
 Reynolds, T.D. 2465
 Reynolds, T.J. 620
 Reynolds, W.M. 1562
 Rezanov, A.G. 3726
 Reznik, S.Y. 120
 Rheinlander, J. 3068
 Rhine, R.J. 1228
 Rhoades, R.W. 789
 Rhoda, J. 2494
 Rhodin, A.G. 2660
 Rhinabaska, A.E. 3998
 Rubie, C.A. 4062
 Ricci, N. 1235, 3028
 Riccio, D.C. 609, 1618, 2957, 4011
 Rice, A.L. 3607
 Rice, J.C. 2294
 Rich, T. 1305
 Richard, B. 4107
 Richard, K.D. 1748
 Richard, P.B. 3087
 Richards, D.G. 39
 Richards, J.J. 1658
 Richards, R.W. 1671, 1775
 Richardson, P.W. 2297
 Richardson, R. 1618, 2957
 Richardson, W.J. 1849, 4050
 Richardson, W.K. 1772, 3912
 Richerson, J.V. 2261
 Richie, T.L. 2342, 2510, 3582
 Richus, W.A. 2831
 Richman, D.B. 293, 299, 3378
 Richmond, R.C. 1261
 Richter, J.A. 1011
 Richter, M.L. 549
 Rick, J.T. 1006
 Riddiford, N. 3863
 Rider, D.P. 1757
 Ridley, R.M. 4012, 4215
 Ridout, L.M. 1556
 Riechert, S.E. 1218
 Riegner, M.F. 3727
 Rieke, G.R. 880, 4152
 Reper, M. 3660
 Riess, I. 3079
 Riess, R. 903
 Riffe, W.H. 3301
 Rigger, H. 3165, 3277, 4025
 Riley, A.L. 1747, 1748, 3957, 3979, 4320
 Riley, E.P. 574, 4297
 Rilling, M. 1779, 1808, 1810, 1811
 Rimet, M. 3067
 Rinderer, T.E. 57, 1544, 2792, 3673
 Ringelman, J.K. 3534
 Ruppelle, A.J. 1899
 Rordan, A.J. 3007
 Rippstein, W.J. Jr. 4395
 Rishew, A.J. 3692
 Rising, C.E. 1993
 Rissmiller, P.D. 3798
 Rispal-Padell, L. 871
 Rissing, S.W. 1437, 1521
 Rustine, L.A. 3177, 4341
 Ritchie, J.D. 4426
 Rutchison, G. 1160
 Ritter, M. 657
 Ritter, R.C. 893
 Ritter, S. 4196
 Ritzel, L. 1850
 Rivest, P. 2737
 Rivier, C. 1043
 Rivier, J. 1043
 Rizzini, C.T. 2766
 Robbins, M.B. 2709
 Robb, R.J. 358, 1482
 Roberge, A.G. 866, 1991
 Roberts, A. 3139, 4080
 Roberts, A.E. 3970
 Roberts, B.R. 2212
 Roberts, H.J. 3885
 Roberts, J.D. 33
 Roberts, J.S. 3749
 Roberts, M.H. 3089
 Roberts, R.B. 3393
 Roberts, S. 1826
 Roberts, T.M. 626
 Roberts, W.A. 1818, 1824, 1830
 Robertson, A. 4260
 Robertson, D.R. 341, 2350
 Robertson, H.M. 2431, 2432, 3505
 Robertson, J.R. 267, 280
 Robertson, R.J. 477
 Robertson, R.T. 3211, 4324
 Robin, M. 999, 2201
 Robinson, D. J. 2552
 Robinson, I.C. A.F. 1095
 Robinson, J.G. 3481
 Robinson, M.H. 2382
 Robinson, N.L. 4068
 Robinson, R.G. 800
 Robinson, S.K. 2324
 Robinson, S.R. 2897, 3431
 Robinson, T.E. 1947
 Robinson, W.H. 1283
 Robinson, W.S. 317
 Robison, B.H. 471, 1595, 2252
 Robotham, P.W. 2680
 Robson, J.G. 702
 Rochat, A. 497
 Rockwood, G.E. 4208
 Rockwood, G.A. 1995, 2065
 Rodd, F.H. 2858
 Rodgers, R.J. 4165
 Rodin, B.E. 798
 Rodman, P.S. 99
 Rodriguez-Manzo, G. 4176
 Rodriguez-Sierra, J.F. 1056
 Rodriguez, D. 307
 Rodriguez, R. 514
 Roelofs, W.L. 13, 15
 Roessler, P.F. 125
 Roff, J. 2494
 Rogatka, H. 4093
 Roger, B. 3389
 Rogers, C.M. 724
 Rogers, E. 1281
 Rogers, L.E. 2751
 Rogers, L.J. 3144, 3620
 Rogers, L.L. 3734
 Rogers, Q.R. 2027
 Rogers, W. 2730
 Rogoff, W.M. 107
 Rogovin, K.A. 492, 3473
 Rohde, R.A. 4185
 Rohrer, S. 94
 Rotblatt, H.L. 3989
 Rojas, F.A. 591
 Rolinski, Z. 77, 847
 Rolins, E.T. 1028, 1970
 Roman, R. 736
 Romanova, L.G. 1111, 3850
 Rombut, D. 3349
 Rommelspacher, H. 948
 Rondeau, D.B. 962, 2099, 3247
 Ropartz, P. 2085, 4224, 4240, 4465
 Roper, T.J. 2247, 3754, 3945
 Rosa, O.A.E. 3766
 Rose, B. 1594
 Rose, B.B. 1449
 Rose, E. 1220
 Rose, G.J. 2225
 Rose, J.E. 1769
 Rose, R.M. 817
 Rose, S.P.R. 3115
 Rosecrans, J.A. 2158, 3930
 Rosellini, R.A. 1735, 2246
 Rosenberg, G.S. 1968
 Rosenblatt, J.S. 1968
 Rosenblum, J.L. 3935
 Rosenblum, L.A. 1386, 2590
 Rosenkide, C.E. 3180
 Rosenthal, C. 2183
 Rosenthal, H. 3644
 Rosenzweig, M.R. 1828
 Rossi, F. 3107
 Ross, D. 647
 Ross, D.M. 1935
 Ross, J.A. 2082
 Ross, J.L. 3696
 Ross, K. 1262, 4065
 Ross, K.G. 2253, 2780
 Ross, L.G. 693
 Ross, M.J. 2825
 Ross, N.M. 221
 Ross, R.T. 1701, 4000
 Ross, S. 4004, 4229
 Rossel, S. 4037
 Rossi III, J. 3116
 Rossignol, S. 3148
 Roth, K.A. 1115
 Roth, L.M. 1343
 Rothery, G.E. 2410
 Rothery, P. 2526
 Rothmund, E. 3092
 Rothstein, B.E. 2330
 Rothstein, S.I. 38
 Rotrou, D. 834, 925, 4218
 Roudino, G. 1137
 Roubik, D.W. 2652
 Roucoux, A. 3129
 Rougeul, A. 862, 4249
 Rouleau, D. 2359
 Roussel, B. 3973
 Roussinov, K. 974
 Rouben, A. 2004, 3216
 Rowe-Collier, C.K. 3722
 Rovner, J.S. 1128
 Rowcliffe, C. 2418
 Rowe, R.J. 2815
 Rowland, A.N. 955
 Rowland, N. 2141, 3206, 4394
 Rowley, I. 234
 Roy, B. 3121
 Roy, M.A. 2226
 Royall, D.R. 3156
 Royalty, J.L. 3990
 Royce, P. 198
 Royova, G.J. 640
 Ruah, A.A. 430
 Rubel, E.W. 2910
 Rubin, E. 959
 Rubin, H.D. 2216
 Rubink, W.L. 2795, 3791
 Rubio, Y. 307
 Ruddle, H.V. 2161
 Rudell, A. 810
 Rudinsky, J.A. 1270
 Rudolph, S.G. 3709
 Rudy, J.W. 391
 Ruffner, G.A. 2368
 Rugh, D.J. 667, 3026
 Rubal, R. 1912, 4461
 Rudiaz, A.C. 1645
 Ruiz de Elvira, M.C. 2514
 Rulli, M. 3552
 Ruppenthal, C.G. 1629
 Ruppert, P.H. 186, 1041, 2100, 3248, 4316
 Rush, J.R. 4029
 Rusniak, K.W. 4154
 Ruskova, E.V. 3172
 Russell-Jones, C. 2128
 Russell, B.J. 631, 632
 Russell, C.E. 297
 Russell, I.S. 899
 Russell, R.W. 2163
 Russo, D.M. 2099, 3250, 3261
 Rusthorst, K.A. 363
 Rutowski, R.L. 123, 2389, 2397
 Ryzan, A.S. 4437
 Ryan, A.T. 4147
 Ryan, J. 319, 4247
 Ryan, K.A. 3946
 Ryan, M.F. 4103
 Ryan, M.J. 390, 2280, 2281, 3802
 Ryan, M.R. 2850
 Ryan, P.R. 2990
 Ryden, O. 3588
 Ryder, R.A. 3015
 Rykaszewski, I. 1745
 Ryker, L.C. 1270
 Rylands, A.B. 246
 Saad, W. 794
 Saad, W.A. 402
 Sabath, M.D. 2442
 Sabel, B.A. 4271
 Sabolovic, D. 2201
 Sachs, B.D. 1328, 2181
 Sachs, M.B. 1771
 Sackett, G.P. 1213, 1629
 Sadamoto, T. 1016
 Sadana, G. 2816
 Safarjan, W.R. 551, 1692
 Sarnel, U.N. 2375
 Saffron, J. 158
 Sage-Day, J. 1778
 Saghubaeva, Sh.K. 3940
 Sahley, T.L. 785
 Sahni, K.L. 383
 Saimi, R.K. S. 6, 1141
 Sainsbury, R.S. 2023
 Saito, M. 4489
 Saito, T.R. 4141
 Sakagami, S.F. 214
 Sakai, R.K. 1248
 Sakharov, D.A. 4279
 Sakuraki, T. 3296
 Szala, A. 804
 Salani, J. 4279
 Salas, M. 1607
 Saligaut, C. 978

- Saller, C.F. 3311.
Salmon, D.P. 1708, 1796, 3062.
Salter, R.E. 2586.
Samadiz, R. 3954, 4351.
Samanin, R. 997.
Sambraus, H.H. 96.
Samet, C. 156.
Sammarco, P.W. 2829.
Samson, A. 4028.
Samuel, D. 4091.
Samuels, A. 99.
Samuels, O. 68.
Samuels, O.B. 1735.
Sams, E. 599.
Sanberg, P.R. 1123.
Sanchez, D. 2149.
Sandberg, D. 4410.
Sanders, C.J. 1266.
Sanders, J.S. 2818.
Sands, F.E. 588, 1664.
Sands, W.A. 2318.
Sanger, D.J. 946, 1018, 1929, 2067, 3265, 4375.
Sanghera, M.K. 2010.
Sann, G. 4134.
Sant, M. 2080, 2084.
Santee, J.L. 3063, 3064.
Santi, A. 607, 2987, 4001, 4013.
Santiago, H.C. 1664.
Saporta, S. 900.
Sara, S.J. 2041, 4175.
Sargent, C.R. 3528.
Sarkisian, J.S. 2019.
Sasaki, K. 872, 875.
Sasserath, E.N. 2553, 4416.
Sattender, K.P. 2913.
Sato, M.A.I. 2498.
Sato, A. 1439.
Sato, M. 3733.
Sato, O. 2832.
Sato, S. 1376.
Sato, T. 829, 1324.
Sato, T. 2074.
Satoh, H. 3296.
Satoh, S. 2094.
Saulskaya, N.B. 4214.
Saunders, R.A. 2429.
Saunders, R.M.D. 828.
Savage, G. 314.
Savard, J.-P.L. 174.
Savardi, U. 599.
Saville, D.J. 414.
Savinevsky, A.B. 3830.
Savitz, J. 3691.
Sawley, D.K. 1322.
Sawyer, C.H. 4193.
Sawyer, S. 1060, 1064.
Saxena, A.K. 2390.
Saxena, H.P. 3503.
Saxena, A.C. 873.
Scapagnini, U. 2179.
Scapini, F. 1832, 2995, 2996.
Scarborough, A.G. 1265, 3356.
Scardigli, P. 1890.
Scarnati, E. 3157.
Schall, A. 3624.
Schacht, W. 2641.
Schaefer, C.F. 1696.
Schaefer, G.J. 4420.
Schaefer, V.H. 2853.
Schaeffer, C. 3555.
Schaefer, M.W. 2994.
Schal, C. 2316.
Schallert, T. 894, 3198.
Schally, A.V. 4363.
Schalock, R.L. 1612.
Schalock, S.M. 1039.
Scharlow, W. 170.
Schecter, D. 1207, 2341.
Schecter, M.D. 4366.
Scheibing, R.E. 268, 3657.
Schemm, P.J. 84, 285, 288, 427.
Schen, S. 3875.
Scher, D.A. 1897.
Scherer, G. 2643.
Schetgens, T.M.P. 2885.
Schneuer, C. 3967.
Schlackman, H. 1777.
Schleef, C. 4357, 4465.
Schlein, Y. 116.
Schlenker, G. 3352.
Schley, P. 3596.
Schlieker, V. 3529.
Schlocker, D.E. 3560.
Schluter, H. 3354.
Schmalk, N.A. 562, 1645, 3803.
Schmalk, K. 594, 982, 1009, 2166.
Schmidt-Effing, U. 744.
Schmidt, C. 1231.
Schmidt, G.H. 3391.
Schmidt, U. 1857, 2550.
Schmidt, W.J. 4178.
Schmidtman, E.T. 4453.
Schmitt, J. 1231.
Schmitt, P. 2051, 4261.
Schmitt, R.J. 432.
Schmutz, S.A. 1002.
Schneider, B.S. 394.
Schneider, D.C. 364, 4051.
Schneider, H.J. 2098, 3250, 3261.
Schneider, J. 1182.
Schneider, J.E. 3592, 3848.
Schneider, J.S. 4430.
Schneider, W. 4188.
Schoenenberger, G.A. 1962.
Schoener, A. 2348.
Schoener, T.W. 2348.
Schoenfeld, T.A. 2036.
Schoenfeld, L. 585.
Schoofield, R.M. 1263.
Schouten, W.G. 194.
Schreiber, B. 3083.
Schreiber, R.A. 2108.
Schreiber, W. 2531.
Schreurs, B.G. 553, 3920.
Schrier, A.M. 1797.
Schroeder, L.A. 926.
Schubauer, J.P. 3683, 4423.
Schuh, H.J. 3350.
Schuch, G. 801.
Schultz, G.W. 2805, 3792.
Schultz, N.J. 3594.
Schulz, E.M. 2127.
Schulz, H. 836.
Schulze-Kellman, K. 3466.
Schumacher, M. 4401.
Schuster, C.R. 1763, 3281, 3962.
Schuster, P. 1075, 1076, 1077.
Schusterman, R.J. 2903.
Schuts, R.M. 2769.
Schwagmeyer, P. 3430.
Schwarz, B. 3914.
Schwarz, E. 3077.
Schwarz, F.J. 1087.
Schwarz, G.E. 539.
Schwarz, H.V. 2137.
Schwarzman, R.J. 874.
Schwarzenberg, H. 836.
Schwegler, H. 802, 1587.
Schwerner, H. 3267.
Sclafani, A. 1511, 2034, 2042, 2123, 4155, 4242.
Sclar, G. 3128.
Scoggin, B.A. 4232.
Scollay, P.A. 249.
Scott, D. 410.
Scott, G.I. 1294.
Scott, G.K. 547.
Scott, K.J. 4124.
Scott, W. 4333.
Scotzava, J. 2980.
Scucchi, S. 3648.
Scudder, K.M. 3594, 4065, 4106.
Sealy, S.G. 2696, 3591.
Seary, M.H. 4109.
Seary, W.A. 1539.
Sears, H.F. 2296.
Sebek, T.A. 4494.
Seed, R. 2618.
Seel, D.C. 2533.
Seel, T.A. 1363.
Seeling, G. 2256.
Segal, S.A. 2124.
Segall, J.E. 3843.
Segura, E. 562, 1645, 3803.
Seiden, L.S. 841.
Seigel, R.A. 146, 147.
Seiger, A. 896.
Seilacher, A. 3852.
Seiple, W. 3769.
Sekara Reddy, D.C. 749.
Sekiguchi, S. 4142.
Sekitani, T. 534, 2929.
Sekuler, R. 4073.
Selander, R.B. 1236.
Selonov, V.A. 915.
Semagin, V.N. 548.
Semagin, V.N. 2938.
Semakopaya, I.I. 572.
Sen, P. 988.
Sengelaub, D.R. 1568.
Sengstake, C.B. 3561.
Sengupta, S. 3543.
Senior, A. 1261.
Senn, R.J. 1929.
Seo, M.L. 776.
Seoane, J.R. 799.
Seravin, L.N. 263, 277.
Seress, L. 4322.
Serra, J.P. 4118.
Serpell, J. 1156.
Sergio, G. 774.
Serradello, A. 130.
Setzer, J.V. 4310, 4325.
Severinghaus, L. 86.
Severyanova, L.A. 1958.
Sevel, R. 2120, 4284.
Seybert, J.A. 3969, 4002.
Seyfarth, R.M. 2596.
Sgro, P. 2098, 3250.
Sgro, S. 4115.
Shabanov, P.D. 960.
Shabanov, L. 1492.
Shagars, C. 1987.
Sharr, H. 3127.
Shanab, M.E. 3933, 3934.
Shanab, H.E. 4359.
Shapiro, D.Y. 337.
Shapiro, K.L. 3908.
Shapiro, L.J. 198, 716.
Sharma, B. 832.
Sharma, K.K. 988.
Sharp, P.E. 2926.
Sharp, P.J. 178.
Sharrook, J.T.R. 2599.
Shaskan, R. 2274.
Shattuck, D. 1640, 2186.
Shaw, E. 2353, 2354, 2446, 3467.
Shaw, K.C. 1219, 2346, 3467.
Shaywitz, B.A. 2167, 3170, 3889, 4311.
Shear, W.A. 2889.
Sheard, M.H. 2140.
Shearon, T.O. 4336.
Shen, D.H. 2840.
Shedden, C. 359.
Shelly, T.E. 2440.
Shelton, G.A.B. 3133.
Shelton, J. 4202.
Shen, W.Z. 442.
Shen, W.Z. 442.
Shepherd, S.A. 2365.
Sherman, A.D. 1950.
Sherman, B.S. 256.
Sherman, J.E. 346.
Sherman, M.Yu. 628.
Sherman, S.M. 4088.
Sherry, D.F. 4021.
Sherry, T.W. 3712.
Shuttleworth, S.J. 1733, 1746.
Shetty, P.S. 3674.
Shi, B. 4241.
Shibata, A. 715.
Shibata, K. 2945.
Shibata, S. 790.
Shibuya, M. 1007.
Shiffman, R.M. 1061.
Shigeta, S. 2089.
Shik, M.L. 915.
Shilov, I.A. 3630.
Shima, S.N. 2405.
Shima, S. 1740, 3985.
Shimizu, I. 1842.
Shimizu, N. 2009.
Shimoff, E. 1710.
Shimomura, K. 979.
Shimp, C.P. 1812, 1813, 2967, 3906.
Shine, R.M. 1443, 2515.
Shine, T.G. 60.
Shin, C.B. 2379.
Shizgal, P. 2059, 4157.
Short, L.L. 1169.
Shorthouse, J.D. 2808.
Shrestha, R.D. 3582.
Shirman, N.I. 842.
Shugar, G.W. 159.
Shull, R.L. 3910.
Shults, T. 3276.
Shuster, S.M. 2379.
Shutte, G. 181.
Shyrykova, N.A. 2008.
Shy, E. 2283.
Sick, H. 2734.
Sickel, J.L. 1747.
Siddiqui, M.F. 2510.
Sieber, B. 941.
Sieber, R. 1592.
Siebert, B.D. 1512.
Siegel-Causey, D. 2725.
Siegel, H.I. 1968.
Siegel, P.B. 3847.
Siegel, R.B. 4032.
Siegel, S. 1743.
Siegfried, W.R. 3831.
Siemens, Y. 4247.
Sigman, E. 4074.
Sigman, S.E. 2242.
Sigmond, K. 1075, 1076, 1077.
Sigmond, R.A. 566.
Signoret, J.P. 2491.
Sigurdson, J.E. 2195.
Sigurdson, H. 59.
Sih, A. 3779.
Silber, S. 1768.
Sik, J.B. 99.
Sillen-Tullberg, B. 1290.
Silva-Netto, C.R. 794.
Silva, C.C. 1000.
Silva, W.R. 2704.
Silveira Filho, N.G. 4368.
Silver, R. 1301, 1365.
Silver, W.L. 4116.
Silverman, A.P. 4328.
Silverman, G. 4073.
Silvers, M. 1742.
Simansky, K.J. 884.
Simantov, R. 3123.
Simidu, U. 2997.
Simler, S. 4348.
Simmel, E.C. 1760.
Simmons, P.J. 711.
Simmons, R.W. 1071.
Simon, C.A. 1912, 4105.
Simon, J.C. 3583.
Simon, M. 3842.
Simon, N.G. 1208.
Simon, P. 1015.
Simonsavichne, B.I. 3080.
Simone, D.A. 3367.
Simonov, P.V. 1975.
Simons, T.R. 2527.
Simonsen, L. 528.
Simonsen, J.L. 779.
Simpson, B.B. 311, 3519.
Simpson, G.V. 4184.
Simpson, J.S. 3869.
Simpson, L.W. 1609, 3227, 3245.
Simpson, M.J.A. 1357.
Simpson, S.J. 3676.
Simser, D.H. 1138, 1272.
Singer, F.J. 485, 1490.
Singer, G. 2121, 4272.
Singer, M.C. 2423.
Singh, P. 1214.
Singh, B.N. 4150.
Singh, P.B. 2499.
Singh, H.K. 2971.
Singh, H.R. 2675.
Singh, K.M. 3503.
Singh, M. 1214.
Singh, O.P. 2435, 4150.
Singh, S. 169.
Singh, Y. 3503.
Singhal, R.L. 849, 4288.
Siniff, D. 1176.
Siniff, D.B. 381, 2825.
Sisakian, M. 4241.
Sinnott, J.M. 1771.
Sinton, C.M. 1604.
Sisk, C.L. 1940.
Siu, G.M. 1488.
Sivinski, J. 1255, 1415.
Siviy, S.M. 1995, 2065.
Sjoeden, P.O. 3953.
Sjoeden, P.O. 2956.
Skaren, U. 3458.
Skellton, W. 1660.
Skinner, B. 1719, 2875.
Skinner, J.D. 2753, 2764.
Sklar, L.S. 2237.
Skoroes, H.-J. 3352.
Skop, S.D. 4133.
Skorups, J.P. 354.
Slabek, Y. 217.
Slack, C.B. 2937.
Slack, R.S. 2908.
Slangen, J.L. 1078.
Slater, P. 1984.
Slater, P.J.B. 1168, 3405.
Slessor, K.N. 17.
Slifer, B. 4354.
Slob, A.K. 3888.
Slocum, B.M. 2045, 4111.
Smaile, M.J. 102.
Small, M.F. 3485.
Smallwood, J. 2436.
Smart, J.L. 2904.
Smart, J.L. 3885.
Smayda, T.J. 346.
Smerding, R. 2026.
Smith, D. 181.
Smiley, C.S. 3878.
Smirnov, V.N. 1989.
Smith, D.F. 1004.
Smith, A.B. III 1180.
Smith, A.M. 879.
Smith, B.H. 2652.
Smith, B.R. 4268.
Smith, D.C. 4089.
Smith, D.F. 994, 4161.
Smith, D.G. 3484, 3485, 3541.
Smith, D.M. 302.
Smith, D.V. 4102.
Smith, E.A. 1396.
Smith, E.J. 725.
Smith, E.R. 1046.
Smith, G. 101.
Smith, G.J. 1823.
Smith, G.P. 277.
Smith, H. 956.
Smith, H.J. 2315.
Smith, H.M. 733, 1444, 1445, 2659, 3678, 4104, 4106.
Smith, J.C. 1916.
Smith, J.J.B. 2649.
Smith, J.M. 1083.
Smith, K.S. 2554.
Smith, L. 479.
Smith, M.C. 8.
Smith, M.H. 4232.
Smith, M.J. 4300.
Smith, M.S. 3316.
Smith, R.F. 1750, 3260.
Smith, R.V. 3301.
Smith, S.K. 3482.
Smith, S.L. 1917.
Smith, S.M. 3619.
Smith, T. 1176.
Smith, T.B. 2703.
Smith, T.G. 381, 484.
Smith, T.H. 116, 3024.
Smittle, B.J. 1426.
Snell, R.R. 2724.
Snelson, D. 2496.
Snodgrass, T.J. 1482.
Snow, W.F. 318.
Snowdon, C.T. 1186.
Snowdon, T. 1384.
Snyder-Conn, E.K. 80.
Snyder, C.A. 3254.
Soares, M.J. 1057.
Sobotta, T.J. 3238, 3242.
Soedertien, P. 1050, 1051, 1052.
Soffe, S.R. 3139.
Sofia, R.D. 965.
Sokolov, L.V. 3874.
Sokolov, V.E. 185, 492, 3556.
Sokolov, P.G. 747.
Solano, J.M. 1116.
Solem, J.O. 1282.
Solheim, G. 3879.
Soliman, K.F.A. 1119.
Solis, E. 1285.
Solomon, J.C. 1433.
Solomon, R.R. 838.
Solovskiy, S.S. 2199, 3968.
Somers, J.D. 1564.
Sommer, M.J. 2521.
Sorensen, A.A. 1411.
Sorensen, E.L. 1541.
Sornie, B.A. 2531.
Sotnik, M. 1143, 3415.
Soubrie, P. 4371.
Souissi, R. 290.
Soumireu-Mourat, B. 611, 2044.
Southern, L.K. 2325.
Southwick, C.H. 2342, 2510, 2582, 3507, 443.
Spaid, S.L. 3238.
Sparber, S.B. 859, 4302, 4323.
Sparenberg, S.P. 1727, 1756.
Sparks, A.N. 1151, 1866, 2393, 3511.
Spaulding, D.W. 1170, 2288.
Spatz, H.-Ch. 1770.
Speelman, R.D. 1028, 1030.
Spear, L.P. 3177, 4341.
Spear, N.E. 614, 1823, 3879.
Spencer, A.M. 4223.
Spencer, K.G. 2852.
Spencer, P.T. 1637.
Speroni, E. 4290.
Spetch, M.L. 589, 1654, 1660, 3932.
Spiegler, B.J. 3208.
Spiehler, V.R. 610.
Spies, E.B. 136, 2439, 2880.
Spitzer, L. 141, 446.
Spirduso, W.W. 931.
Spironidou, V.K. 981.
Spirtes, M.A. 949.
Spitler-Nabors, J. 3399.
Spitler-Nabors, J.K. 1162.
Spitschak, K. 3352.
Spitz, F. 2365.
Spoder, D.L. 336.
Spoor, E. 896.
Spotte, S. 1318, 2757.
Sprague, S. 4295.
Spratto, G.R. 2165.
Springer, A.D. 1631, 1825.
Springer, J.E. 4200.
Springer, S.D. 3820.
Spryaki, C. 933, 2095, 4346.
Squibb, R.E. 859, 4339.
Squillace, K.M. 3221.
Squire, A. 3397.
Srinivasan, M.V. 1840.
Srinivasan, V. 2859.
St. Dennis, C. 1504.
St. George, S. 3983.
Stacey, N.E. 1296, 4399.
Stacey, P.B. 1389.
Staddon, J.E.R. 1163.
Stagge, B. 2232.
Stahlbrandt, K. 3548.
Stanis, B.W. 2755.
Stanton, J.M. 2848.
Stalling, R.B. 1635.
Stamp, N.E. 451, 2800, 3783.
Stamps, J. 1450.
Standora, E.A. 2819.
Stanley, B.G. 1966.
Stanton, M. 1730.
Stanton, M.L. 2441.
Stanton, T.L. 2063.

- Stapleton, J.M. 2133
Stark, J.M. 71, 72, 73.
Stark, B.P. 3384, 3386
Stark, W.S. 1884
Starkley, C. 2131.
Starkley, E.E. 2583
Starnier, W.T. 2629
Star, M.S. 898
Start, I.B. 1102
Statzner, B. 2742
Stauderman, K.A. 2204
Stauffer, J.R. Jr. 464
Stock, W. 17
Steel, C.G.H. 2791
Steel, E. 3321
Steele, P. 779
Steffan, W.A. 108
Stehn, R.A. 2505
Steimer, T. 1312, 2174
Steimer, Th. 1035
Stein, D.G. 405, 4271
Stein, D.M. 1389
Stein, L.J. 932, 3741
Steiner, M. 1047
Steiner, W.W. 1179
Steinhauer, G. 3933, 3934
Stein, J.N. 4336
Steinbach, G.E. 2188
Stenner, T. 3518
Stenseth, N.C. 255
Stephan, F.K. 1940, 3204
Stephenson, R.M. 1979
Stephenson, R.O. 404
Stenard, M. 3219
Sterner, R.A. 4481
Stern, J.S. 3752, 3758
Sternburg, J.G. 3356
Sterner, U. 1010
Stensheim, C.E. 701
Stevens, D. 3351, 4451
Stevens, D.A. 405, 1184, 1787.
Stevens, D.G. 3805, 4481
Stevens, J.C. 4094, 4097
Stevens, K. 1058
Stevens, V.J. 3641
Stevenson-Hinder, J. 1357
Stevenson, P. 1868
Steward, O. 2030
Steward, R.C. 456, 2794
Stewart, A.M. 403
Stewart, A.P. 462
Stewart, J. 3365, 4410
Stewart, K.W. 3384, 3386
Stewart, M.M. 287
Stewart, P.A. 659
Stewart, R.B. 3928
Stewart, R.K. 3390
Stechman, N. 3387
Stockey, K.J. 2197
Storhoff, K.A. 3956
Stiles, H.E. 1487
Stimac, J.L. 2785
Stimac, K. 3987, 4106
Stinner, R.E. 1526
Stinner, C.H. 472
Stint, C. 3196
Stitt, T.G. 800
Stittsworth, J.D. Jr. 740
Stoaks, R.D. 108
Stockel, J.P. 121.
Stockman, E.R. 1336
Stoddart, D.M. 1913, 4113, 4114
Stoddart, J.A. 2370.
Stokes, P.E. 4286
Stokman, C.L.J. 66, 4270
Stor, P. 3551
Stoller, I.P. 1092, 2101
Stoller, W.L. 3184, 4227.
Stone, S. 381, 1176.
Stone, T.W. 3266
Stonebraker, T.B. 1808, 1810, 1811.
Storm, J.E. 3260.
Stowe, M. 1415.
Stoynev, A.G. 4234.
Strahl, S.D. 167.
Strang, M. 4196.
Strasschill, M. 854
Stratton, G.E. 1127.
Straub, R.O. 1669
Strawbridge, P. 3163
Stretch, J.P. 3661.
Stricker, E.M. 3206
Strickler, J.R. 2615
Stromer, L. 229.
Stromeyer, C.F. III 701.
Strong, R. 1643.
Stroud, C. 3163
Strub, H. 405.
Struger, J. 3402.
Struhaker, T.T. 2313.
Strum, S.C. 2377.
Stuart, A.M. 2278.
Stuart, R.J. 1131.
Stuckey, J.A. 4174.
Studholme, A.L. 156.
Sture Enksson, E. 4077
Stutterheim, C.J. 2717
Stutz, R.M. 2052
Stutman, P.M. 3194
Suarez, S.D. 602, 1485, 2079, 3837
Subbaraj, R. 4367
Subrahmanyam, D. 4158
Suda, Y. 370
Sudakov, K.V. 2062
Sudarshan, R. 1530
Sudfeldt, C. 2469
Sudo, A. 63
Sugarmann, P.C. 2621
Sugden, D. 3269
Sugimoto, K. 829
Sugiyama, Y. 3638, 3639
Sukhman, T.R. 3493
Sulcova, A. 4390
Suleman, M. 1237
Sullivan, B.K. 2822
Sumnerlee, A.J. 3167
Summers, B. 413, 3229
Summers, C.G. 1429
Summers, J.D. 1466
Sundberg, H. 4112
Sungurova, T.A. 1674
Sung, S.J. 873, 1103, 1379
Surange, S.G. 2859
Surnchak, J.S. 1683
Surrell, W.W. 1927
Susiyayev, A.S. 671.
Susman, R.L. 3762
Sussman, R.W. 3763
Suter, R.B. 443
Sutherland, B.L. 410
Sutherland, D.J. 3095
Sutherland, R.J. 5057, 2057, 4237
Suthers, R.A. 4063
Suto, C. 26
Sutterer, J.R. 1745
Sutton, J.M. 4473
Sutton, D. 913, 1799
Sutton, R.S. 1006, 1971
Suwa, M. 2991
Suzuki, T. 1139
Suzuki, Y. 63, 1276, 2395, 3504
Svare, B. 68, 2180, 3600
Svec, J. 3447
Svensden, G.E. 3427
Svensson, L. 2149, 4319
Svensson, T.H. 1985
Swaminathan, S. 117
Swanson, H.H. 3122
Swanson, L.J. 1349, 3554
Swartz, K.B. 1386, 2590
Swartz, S. 1848
Swartz, S.L. 421, 1452
Swartzelder, H.S. 4314
Swartzwelder, H.S. 592
Sweers, S.B. 3820
Swennen, C. 161
Swenson, J.E. 2844
Swift, M.C. 301
Swihart, R.K. 3827
Swindoll, M.L. 3742
Switzer, W.P. 3018, 4055
Switzman, L. 2116
Swyzska, E. 1983
Symons, P.M. 3778
Szabadi, E. 2161
Szaborska, A. 904
Szczytko, S.W. 3384, 3386
Szczepanski, J.M. 4307
Szczepanski, C. 2078
Szukiel, E. 3739
Szymanska, J. 2773
Tabarelli, Z. 1049
Taber, S. 452
Tabor, J.E. 2851
Taborsky, M. 227.
Tachiki, K.H. 1449
Tadokoro, S. 3235
Taffe, C.A. 2425
Taga, N. 2997
Tagawa, J. 1271, 3498
Taghon, G.L. 253.
Tagliaterra, A.R. 3749, 3757
Taguchi, Y. 770.
Tait, N.N. 2772.
Tait, M.J. 69, 3476.
Takabatake, I. 3069
Takahashi, H. 854
Takahashi, K. 12.
Takahashi, K.W. 4141.
Takahashi, L.K. 3453
Takahashi, M. 534, 2929
Takahashi, R.N. 4272
Takeda, M. 4133.
Takeda, S. 453.
Talaisa, L. 1181.
Tallamy, D.W. 1344
Tallanda, R.J. 2190
Talyor, R.J. 3233
Tamaki, Y. 584, 1613, 3492, 3495, 4413
Tammann, R.H. 236, 481, 2330
Tamasy, V. 526, 775
Tamoto, Y. 4128
Tan, H.Q. 442
Tanaka, K. 3046
Tanaka, M. 852
Tanaka, S. 1450, 1451, 4142
Tang, M. 3851
Tango, T. 1324
Tanguchi, T. 1007
Tannhauser, M. 3272
Tannhauser, S.L. 3272
Tanouchi, M. 29
Tapp, W.N. 615, 2236
Tarte, R.D. 1728, 3977
Tarygna, N.G. 3815
Tasaki, K. 3091
Tattar, T.A. 4185
Tattersall, I. 3763.
Tautkus, H. 3983
Tautou, P. 2437
Tautz, S. 360, 3078
Taylor, B.J. 4325
Taylor, C. 4182
Taylor, C.P. 613, 679.
Taylor, R. 493, 697
Taylor, D.C. 1831
Taylor, D.H. 3625, 4299
Taylor, D.P. 1031
Taylor, F.H. 788
Taylor, G.T. 2230, 3572
Taylor, G.W. 272
Taylor, H.G. 2342, 2510, 3582
Taylor, L.R. 1410
Taylor, M. 1431
Taylor, P.R. 2771
Taylor, R.A.J. 1215
Taylor, R.J. 252
Teal, D. 2366
Teal, P.E.A. 1246
Teas, J. 2342, 2510, 3582
Tedders, W.L. 296
Tees, R.C. 1614, 3203
Teghtsoonian, M. 4100
Teichmann, R. 4100
Teicher, M.H. 2167, 3170.
Teitelbaum, P. 894, 3299
Tensena, D.M. 2734
Telage, K.M. 412
Telford, S.R. 1153, 1155
Telitzyna, A.Y. 3380
Telner, J.I. 4288
Temple, S.A. 2703
Ten Hoopen, G. 4098
Teng, K.F. 441
Tengo, J.O. 2402
Tendosno, N.R. 1603
Tepedino, V.J. 1441, 1539
Tepper, V.J. 1373, 3628.
Tepperman, F.S. 1001, 2064
Terasawa, E. 1056
Terlecki, L.J. 3932
Ternaux, J.P. 3126
Terrace, H.S. 1669
Terry, C.J. 487
Terry, W.S. 2106
Ternic, B. 997
Tesch, F.W. 3010
Teuffert, J. 3354
Tewary, P.D. 1937
Thacher, D.O. 2055
Thakur, M.L. 219.
Tham, W. 3989
Theiss, J. 3381
Thelen, E. 1627, 1877.
Theodorou, A. 993
Therrien, M. 867.
Thexton, A.J. 4203
Thibos, L.N. 3060
Thibout, E. 133, 2391.
Thibout, M.H. 4371
Thiemann, A. 1930
Thessen, D.D. 1590, 2203
Thiess-Bianc, C. 1890, 1891, 4090
Thirapatsakun, L. 2417.
Thoen, C. 2813
Thoman, T.A. 418.
Thomas, B.T. 2473
Thomas, D.A. 1181, 1920.
Thomas, D.R. 1809, 2933, 2968.
Thomas, D. 2978, 4019, 4020
Thomas, E. 839
Thomas, G.J. 3192.
Thomas, J.D. 272.
Thomas, L. 2773
Thomas, L.A. 1200.
Thomas, M. 2722.
Thomas, M.D. 4428
Thomas, R.L. 1679.
Thomas, T.N. 1609, 3245.
Thomas, V.G. 371
Thompson, B.C. 2851
Thompson, C.S. 3135
Thompson, D.M. 2124, 3280
Thompson, L.S. 2461
Thompson, N.S. 3404
Thompson, P. 3163, 4190
Thompson, R. 1014, 3187, 3197
Thompson, R.F. 1993, 3171, 4177, 4228
Thompson, R.K.R. 3096
Thomson, C.E. 3717
Thomson, J.D. 3671
Thon, B. 529
Thor, D.H. 1374, 2578
Thorp, J.H. 1
Thorne, K.W. 1250.
Thurby, P.L. 4351
Thwaites, C.J. 1226
Tichonov, A.V. 1600
Tierney, J. 1691
Tietjen, W.J. 1359, 3608
Tiffany, T. 2159.
Tiffany, T.M. 2136
Tikhonov, A.V. 3401.
Tilson, H.A. 859, 940, 4277, 4327, 4303
Tilson, R. 3748
Tilson, R.L. 211, 2311
Tilton, M.E. 382
Timberlake, W. 1693.
Timkina, E.O. 628
Timmermans, P.J. 194
Timney, B. 3058
Timofeyeva, N.O. 572.
Tipson, A.R. 485
Timan, R.D. 2895
Titov, M.I. 1989
Titus, K. 474
Tobani, A. 2015
Tobert, S.A. 4412.
Tobin, T. 3276
Tobin, T.R. 1843, 2256
Tobler, H.J. 1962
Tobler, I. 1942, 4144
Tociolav, I. 535
Todd, J.W. 3388
Todd, P.R. 650
Todd, R.B. 3105
Todorov, J.C. 4417
Todi, D. 232, 1174
Toermalae, T. 759
Toft, C.A. 328, 2519, 2796
Toga, A.W. 4007
Tokarz, R.R. 1034.
Tokimi, A. 3380
Tokuyama, K. 4489
Tolan, J.C. 724
Toledo, J.F.F. 438
Tolkachev, V.N. 348
Tollstrup, K. 3612, 3682
Tolochko, Z.S. 3160
Tolpyshev, B.A. 3217
Tolson, S. 1185
Tomback, D.F. 369
Tomough, J. 2987
Tombaugh, J.W. 4001
Tombaugh, T.N. 934, 2078, 2987, 4001
Tomada, I. 1145
Tome, A. 1651
Tomlinson, D.N.S. 1370.
Tomlinson, K.A. 2211
Tompkins, E.C. 1031.
Tompkins, E. 1696
Tompkins, L. 142
Tompkins, P. 1692
Toner, J.P. 3780
Toner, J.P. 2506
Tongiorgi, P. 3075.
Tonner, J.A.D.M. 4156
Toqr, G. 1248
Torre, D.T. 2211
Tore, J.A. 1511
Tomes Penedo, M.C. 2227.
Torres, D. 393
Toth, G. 4340
Toussaint, P. 4175
Towensend, C.R. 3692
Towensend, K. 282
Towensend, T.W. 95
Toyoda, T. 1134
Tozer, D.J. 2528
Tozer, W.L. 1282
Traber, J. 3291
Trachulevic, J. 3422
Trachy, R.E. 913, 1799
Traill, D.S. 1416
Trail, P.W. 167
Tranberg, D.K. 1779.
Tranelli, J. 1146.
Tranelli, J.F.A. 1143.
Trattner, A. 2887
Travers, J.B. 4120
Travis-Neidfeffer, M.N. 3997
Travis, J. 3216
Treherne, J.E. 1555, 3781.
Trechler, F.R. 1709
Treit, D. 2160, 3932
Tremlay, E. 1137.
Trenner, C.M. 1033
Trnana, E. 4286
Trnato, T. 1960
Trnallud, C. 97.
Trnlich, F. 2901
Trnml, R.M. 114
Trner, L. 3282
Trnvliece, V. 355, 3585
Troisi, A. 3648
Trotter, Y. 861.
Trotter, B.L. 2099, 3247
Trubachev, V.V. 162
Trueman, E.R. 2776.
Trulsson, M.E. 3271, 4143
Trulsson, V.M. 4143.
Truong-Ngoc, A. 863, 864
Trushina, E.D. 1989.
Tryon, B.W. 152.
Tsedek, A. 1426
Tshemyshev, W.B. 2814.
Tsintsadze, D.G. 1106.
Tsuchiya, Y. 1834
Tsuchida, A. 852.
Tsuchi, K. 1036
Tucker, A. 4153
Tufik, S. 1005, 4368
Tullis, K.J. 3732
Tulloch, D.G. 3818
Tully, T. 2881.
Tumlinson, J.H. 1132, 1246
Tun, C.F.W. 3554.
Turgeon, J. 2276.
Turillazzi, S. 2345, 2372, 2891
Turkewitz, G. 1353, 1626.
Turkkan, J.S. 1712.
Tumbow, R.H. 3787.
Turnbull, A.L. 2636
Turner, D.A. 449, 1086
Turner, E.C. J.R. 2407
Turner, G.K. 3582
Turner, J.J. 1059
Turner, J.W. Jr. 2507
Turney, T.H. 3400
Turnillot, P. 3973.
Turski, L. 901, 2170, 4162, 4362
Turski, W. 2170, 4362.
Turvey, M.T. 419
Tuton, C.E.G. 3867
Turvey, M.D. 390, 2280, 2281.
Tuttle, R.H. 3857
Tyack, P. 46
Tye, A. 2707.
Tynan, W.D. 3879
Tyrell, M. 1205
Tzuo, H. 4095
Tzuo, P.L. 4095
Uchida, T. 2486
Udo, M. 3046, 3047, 3168
Ueckert, D.N. 292.
Ueda, K. 3970
Ueda, S. 3053
Ueda, T. 3464.
Uehara, S. 3760
Ueki, S. 70, 2945
Uematsu, H. 1273
Ueta, G.W. 1127
Uetz, G.W. 2998
Ugolina, A. 643, 1832, 2516, 2996, 3003
Ulguro-Okone, D.C. 2087
Uhlman, D.L. 4031
Uhlrich, D.J. 4081
Ulfstrand, J. 1297, 3813.
Ullman, S. 1495
Ulsamer, P. 1849
Unzawa, S.I. 2835
Urnker-Seebok, J. 4494
Underhill, W.E. 17.
Underwood, H. 461, 4163.
Underwood, R. 2584
Unwin, D.M. 1079, 3333.
Uozumi, I. 340
Uphouse, L.L. 3119
Upton, D.E. 3752, 3758.
Urban, C.B. 2658
Urcuoli, P.J. 1664
Uriz, M.J. 3011
Urquhart, D. 4457
Ursin, H. 2018, 4112.
Ursin, R. 2018
Uysing, K.O. 4234
Uysing, H.B.M. 3122
Vaccarno, F. 1337, 4269.
Vachon, L. 866
Vadaz, C. 1109.

Author Index

- Vail, B.J. 963.
 Valach, D.L. 4445
 Valdes, J.L. 1604.
 Vale, W. 1043.
 Valens, M. 2494.
 Valenstein, E. 4463.
 Valenti, G. 1196.
 Valentine, J.O. 2173.
 Valentine, R. 3276.
 Valentino, D. 4464.
 Valerio, C.E. 1393.
 Valla, M.E. 4455.
 Valli, M. 954.
 Valverde, J.A. 2529.
 Valzelli, L. 865, 2091, 2336.
 Van Abeelen, J.H.F. 2885, 3270.
 Van De Poll, N.E. 1744, 3456.
 Van der Kooy, D. 4378.
 Van Der Loos, H. 1587.
 Van Der Mueren, E. 62.
 Van Der Poel, A.M. 851.
 Van Der Schoot, P. 3888.
 Van der Walt, L.A. 1340.
 Van der Zee, D. 2749.
 Van der Zwan, S.M. 1744.
 Van Donk, E. 2775.
 Van Edmond, M.A.H. 4414.
 Van Gundy, S.D. 621, 622.
 Van Haaren, F. 1670.
 Van Hartsvelde, C. 1019.
 Van Ierland, J. 188.
 Van Hof, M.W. 3194.
 Van Honk, C.G.J. 125.
 Van Honk, C. 2371.
 Van Luijckelaar, E.L.J.M. 4256.
 Van Marthens, E. 518.
 Van Meurs, G. 4098.
 Van Niekirk, H.P. 1099.
 Van Noordwijk, A.J. 170.
 Van Oortmerssen, G.A. 2884.
 Van Orsdel, K. 1161.
 Van Oyen, H.G. 1744, 3456.
 Van Put, J. 3465.
 Van Ree, J.M. 2000.
 Van Reempts, J. 1994.
 Van Veen, J.C. 2403.
 Van Vleck, L.D. 4450.
 Van Wimersma Greidanus, T.J.B. 4414.
 Vandeplasche, G.M. 2508.
 Vander Meer, R.K. 1152.
 Vander Wall, S.B. 2726, 3731.
 Vanderweede, D.A. 397.
 Vanderwolf, C.H. 1973, 4419.
 Van der Hof, H.A. 1837.
 Vanhulzen, Z.J.M. 767.
 Vannini, M. 93, 2516.
 Van Wageningen, R.F. 2747.
 Vardhani, V.V. 1125.
 Varella, J. 3705.
 Vercosh, G.K. 2440.
 Vargo, M.J. 2819.
 Varju, D. 705.
 Vasilevskaya, N.E. 924.
 Vasiliev, A.G. 853, 3173.
 Vasquez, B. 610.
 Vaynsky, P. 2947.
 Vaughan, W. Jr. 3917.
 Vaughan, W. Jr. 1648.
 Vavilov, A. N.M. 570.
 Vecsei, L. 4363.
 Veen, J. 164.
 Veersah, G.K. 2633.
 Vegh, M. 2207.
 Velimirov, B. 2761.
 Velle, W. 3305.
 Velley, L. 911, 3210.
 Velthuis, H.H.W. 125, 1363, 2277.
 Veltmann, J.R. Jr. 378.
 Verbeek, H.J. 2521.
 Verbeek, N.A.M. 3730.
 Verga, M. 1377.
 Vergnes, M. 4246.
 Verhaeghe, J.C. 10.
 Verhagen, J.H.G. 3697.
 Vermer, T. 3325.
 Verity, P.G. 346.
 Verkaik, A.J. 4457.
 Verme, L.J. 2488.
 Vermeer, G.K. 267.
 Verosky, M. 3287.
 Vermilo, R.T. 4125, 4127.
 Verry, D.R. 1704, 4003, 4014, 4022.
 Versteeg, D.H.G. 604.
 Verwer, J.G. 251.
 Verwer, R.W.H. 3122.
 Vescovo, P.P. 1196.
 Vessey, S.H. 3642.
 Vestergaard, K. 784, 4138, 4446.
 Vet, L.E.M. 4487.
 Vetter, R.S. 123.
 Vetter, J. 2080.
 Veyssiere, G. 3603.
 Vickery, W.L. 483, 488.
 Vidal, J.-M. 2911.
 Vidal, P.P. 3129.
 Viehmann, W. 3014.
 Vijayakumar, N. 1874.
 Viken, R.J. 3086.
 Vikis-Freibergs, V. 4338.
 Viitis, T. 726.
 Vilks, I.K. 4057.
 Village, A. 1468.
 Villavaso, E.J. 1269.
 Villeneuve, D. 2050.
 Villesses, R. 518, 575.
 Villiers, L. 1453.
 Vincent, D.L. 1539.
 Vincent, J.P. 2365.
 Vining, E.P. 3137.
 Vinson, S.B. 3411.
 Vintrova, M. 2655.
 Vir Kaur, K. 286.
 Visalberghi, E. 4018.
 Viswanath, B.N. 2890.
 Vite, J.P. 2261.
 Vitt, L.J. 2892.
 Viveiros, D.M. 545.
 Voegeli, F.A. 4424.
 Vogel, P. 491.
 Vogel, R.A. 1039.
 Vogel, W.H. 600.
 Vogt, F.D. 3828.
 Vogt, J.L. 2240.
 Vogt, M.B. 4019.
 Voith, V.L. 3344, 3345, 4458.
 Volbrecht, V.J. 3444.
 Volkman, N.J. 355.
 Volkov, V.F. 2008, 3334.
 Volkova, L.I. 975.
 Volkovskis, C. 950.
 Volpe, L.C. 242.
 Von, R. 1196.
 Vornacka, A.J. 1041, 1053, 2182.
 Von Almen, T.K. 2156.
 Von Blottnitz, F. 3748.
 Von Campenhausen, C. 3076, 3079.
 Von Haartman, L. 3814.
 Von Kanel, A. 1475.
 Von Westernhagen, H. 3044.
 Voorhees, J.W. 3948.
 Voorhes, C.V. 1611, 1954, 3242, 3249.
 Voronin, L.G. 3940.
 Vuilleumier, V. 3282.
 Vuorinen, H. 759.
 Waage, J.K. 3506.
 Wada, H. 70.
 Wada, K. 3768.
 Wada, M. 3100.
 Waddington, J.L. 968.
 Waddington, K.D. 20, 1644.
 Wade, G.N. 3747.
 Wade, M.J. 502, 3839, 3845.
 Waide, C. 4016.
 Wagman, D.W. 3414.
 Wagner, A.R. 2926.
 Wagner, G. 3621.
 Wagner, G.C. 1763.
 Wagner, M.R. 973.
 Wagner, T.L. 1238, 1263.
 Wahl, G. 1693.
 Wainwright, K.L. 2578.
 Wainwright, P.E. 1354.
 Waiss, A.C. Jr. 295.
 Waite, R.K. 2688.
 Waldbauer, G.P. 3356.
 Waldbilling, R.J. 1966.
 Waldman, B. 3525.
 Waldmeier, P.C. 792.
 Waldner, I. 3077.
 Waldvogel, M.G. 119.
 Walk, H. 1744.
 Walk, R.D. 1781.
 Walkenbach, J. 1643.
 Walker, C. 986.
 Walker, C.H. 991.
 Walker, J.M. 766.
 Walker, L.C. 908.
 Walker, M.L. 2226.
 Walker, M.M. 4045.
 Walker, T.J. 3007.
 Wallace, J.B. 289.
 Wallace, N.D. 3063, 3064.
 Wallace, R.B. 4172.
 Wallace, R.K. Jr. 2454.
 Wallace, S. 3975.
 Wallach, H. 4075.
 Wallen, K. 1356.
 Wallis, C.A. 2462.
 Wallis, S.J. 3870.
 Wallnau, L.B. 1122, 1124, 1980.
 Waltraff, H.G. 1852, 3022, 4046, 4047.
 Walovich, R. 980.
 Walro, J.M. 3427.
 Walser, G.E. 2472.
 Walser, E.S. 3434.
 Walsh, B.J. 3325.
 Walsh, J.M. 4308.
 Walsh, L.L. 2337.
 Walsh, M. 3750.
 Walsh, M.L. 2015, 3199, 4247.
 Walsh, T.J. 4312, 4313, 4316, 4317.
 Walters, C.P. 1781.
 Walters, E.T. 2984.
 Walther, W.W. 1907.
 Walther, A.M. 3561.
 Walther, C. 3339.
 Walitz, E.C. 2575.
 Wang, H. 2888.
 Wang, J. 2458.
 Wang, S.C. 1177.
 Wang, S.J. 714.
 Wang, Y.T. 714.
 Wankel, B. 3562.
 Wanless, S. 1519.
 Warburton, D.M. 4181.
 Ward, H.W. 2144.
 Ward, L.L. 1040.
 Ward, J.A. 1877.
 Ward, J.M. Jr. 388.
 Ward, J.P. 1846.
 Ward, K.A. 673.
 Ward, S.E. 1714.
 Ward, T.M. 685, 1085.
 Warde, D. 4470.
 Ware, M.D. 2135.
 Ware, R.W. 1676.
 Warford, C. 1474.
 Warm, J.S. 1926.
 Warren, A.G. 1713.
 Warren, J.M. 2033.
 Warren, P.H. 4372.
 Warthen, J.D. Jr. 300.
 Warr, R. 1196.
 Waser, P.G. 941.
 Waser, P.M. 1068, 2594.
 Wason, A. 3027.
 Wasserman, E.A. 1659, 2986, 3992.
 Wasserman, S. 124.
 Wasser, R.J. 3796.
 Watanabe, H. 957.
 Watanabe, I. 1910.
 Watanabe, K. 957, 3640.
 Watanabe, M. 3483, 4128.
 Watanabe, S. 70.
 Watanabe, T.K. 1582.
 Watanabe, H. 992.
 Waterman, P.G. 1520.
 Watkins, L.R. 4160, 4212.
 Watler, D. 3672.
 Watson, A. 2326.
 Watson, P.J. 3742.
 Watson, P.S. 365.
 Watt, K.R. 2483.
 Watbled, S. 2401.
 Watts, P.D. 3045.
 Watts, W. 693.
 Wauquier, A. 1994, 3220.
 Wawrzyniak, M. 901.
 Waxman, R. 1898.
 Wayner, M.J. 962, 4293, 4315.
 Wearden, J.H. 535, 1065, 1681, 3885.
 Weaver, L.M. 973.
 Weaver, M.S. 2107, 4122.
 Weaver, N. 1217.
 Weaver, W. 1217.
 Webb, A.C. 4205.
 Webb, D.R. 239.
 Webb, J.C. 3388.
 Webb, P.W. 1871, 3042.
 Weber, B.C. 1864, 1865.
 Weber, D. 3825.
 Weber, D.D. 2824.
 Weber, R.J. 1879.
 Webster, D.G. 1573.
 Webster, W.G. 796.
 Wecker, J. 4488.
 Weckenstroo, J.E. 2612.
 Weeks, J.R. 1091.
 Weeks, R.W. 480.
 Weerasuriya, A. 1978.
 Wehmer, F. 1446.
 Wehner, R. 1840, 4037.
 Wehr, T.A. 1942.
 Wehrhahn, C. 641, 709.
 Wehrhahn, C.F. 3009.
 Wehrhahn, N.D. 499.
 Wehs, D. 1836.
 Weimer, R. 2584.
 Weinberg, J. 519.
 Weinberg, S.M. 4486.
 Weinberger, D.A. 2440.
 Weiner, W.J. 3289.
 Weingarten, H.P. 4221.
 Weinstein, P.J. 2720.
 Weisinger, R.S. 4232.
 Weiss-Buerger, M. 2918.
 Weiss, B. 4379.
 Weiss, R.K. 1406.
 Weiss, S.J. 3921.
 Weissert, R. 3076, 3079.
 Weizenbaum, F.A. 2501.
 Welank, P.R. 1364, 2374.
 Welch, B.L. 412.
 Welborn, S. 4106.
 Wellington, J.L. 1178, 1180.
 Wellington, W.G. 114.
 Wells, H. 302.
 Wells, M.C. 2736.
 Wells, R.F. 1945.
 Welzl, H. 3152.
 Wemmer, C. 187.
 Wenger, C.R. 3738.
 Wenger, G.R. 2109, 4318.
 Wenzel, J.R. 2136.
 Wenzel, Z.M. 1819.
 Werner, E.E. 2672, 3654.
 Wershtler, C.R. 2462.
 Weseloh, D.V. 2463.
 Weseloh, R.M. 109, 450.
 Wesfield, S. 3955.
 Wesler, L.S. 4431.
 Wesson, J.A. 2508.
 West, D.B. 932, 3741.
 West, J.R. 2261.
 West, M.J. 1163.
 West, N.H. 3370.
 Westbrook, F.R. 3920, 3981.
 Westlund, B.J. 1228.
 Westphal, W.V. 1456.
 Whitham, T.S. 1676.
 Wetzel, W. 974.
 Whalen, R.E. 3317.
 Wharton, D.A. 2779.
 Whately, B.P. 2378.
 Wheelwright, N.T. 2597.
 Whelan, R.J. 2617.
 Whetstone, J.M. 261.
 Whilans, K.V. 1733.
 Whishaw, I.Q. 1507, 1956, 2029, 2058, 3198, 4237.
 Whitcomb, W.H. 293.
 White, D. 3646.
 White, D.M. 400, 1373.
 White, F.J. 969.
 White, J.D. 1546.
 White, J.M. 1791.
 White, R.J. 437.
 White, N. 2147, 2148, 3215, 4115.
 White, R.D. 2826.
 Whitehouse, J. 2501.
 Whitehouse, W.G. 3898.
 Whiteside, D.A. 3903.
 Whitham, T.G. 2568.
 Whitham, D.W. 2266.
 Whithorn, M.J. 3724.
 Whitney, G. 1182.
 Whitside, D.A. 4122.
 Whitten, A.J. 2369, 2712, 2767, 2871.
 Whittington, D.A. 1081.
 Whittle, K.L. 1006.
 Wideman, J. 4329.
 Widmayer, D. 590.
 Wichmann, B.E. 2165.
 Wiegant, V.M. 4166.
 Wieland, M. 317.
 Wiens, J.A. 3412, 3681.
 Wiekema, P.R. 52.
 Wiesner, E. 2060.
 Wietzel, M.J. 544.
 Wiggins, A.D. 2861.
 Wigodsky, H.S. 1098.
 Wikander, P.B. 429.
 Wike, E.L. 2193.
 Wikstroem, H. 2149.
 Wilkens, S. 1845.
 Wilbanks, W.A. 3878.
 Wilcox, G.L. 4478.
 Wilcox, R.E. 3301.
 Wilcox, R.S. 2271.
 Wild, C.H. 438.
 Wiley Driscoll, J. 1364.
 Wiley, J.N. 4332.
 Wilhelm, K. 2413.
 Wilhelm, K.L. 3272.
 Wilk, C. 1574.
 Wilkens, L.A. 703, 816.
 Wilkes, T.A. 1881.
 Wilkie, A.O.M. 3553.
 Wilkie, M.D. 589, 956, 1654, 3932.
 Wilkie, M. 1660.
 Wilkinson, D.A. 2145.
 Will, B. 2020, 3887.
 Willadsen, S. 3434.
 Willard, E.E. 382.
 Willes, P. 1100.
 Willey, R.B. 19.
 Willey, R.L. 673.
 Williams, A. J. 160.
 Williams, B.A. 1656, 1801, 3944.
 Williams, H. 4328.
 Williams, I.H. 8, 2262.
 Williams, J.B. 1474.
 Williams, J.L. 3457.
 Williams, M.D. 3535.
 Williams, M.H. 1573.
 Williams, M.P. 237.
 Williams, M.P. 4257.
 Williams, O. 2769.
 Williams, R.A. 3910.
 Williams, T.C. 3020.
 Williams, W.T. 2829.
 Williamson, P. 716.
 Willig, M.R. 2366.
 Willis, E.O. 512.
 Willmer, P.G. 2787.
 Willmund, R. 1838, 2876.
 Willner, P. 993.
 Wilson, A.L. 1410.
 Wilson, C.A. 189.
 Wilson, C.L. 546.
 Wilson, D.E. 790.
 Wilson, D.S. 202.
 Wilson, E.O. 1534.
 Wilson, G. 1889.
 Wilson, G.C. 1584.
 Wilson, J. 100.
 Wilson, J.F. 2939.
 Wilson, J.R. 652, 805.
 Wilson, L.M. 1502.
 Wilson, M. 727, 3917.
 Wilson, M.A. 3969.
 Wilson, M.C. 1122.
 Wilson, M.E. 2514.
 Wilson, M.F. 1694.
 Wilson, R.T. 2896.
 Wilson, S.C. 3568, 3637.
 Wilson, S.M. 2092.
 Wilson, T.C. 2489.
 Wilschko, R. 662, 1853, 2909.
 Wilschko, W. 662, 1853, 2909.
 Wimmer, S.C. 1501.
 Windungstad, R.M. 1487.
 Wine, J.J. 818, 3134.
 Winger, G. 3226.
 Wingfield, D. 3456.
 Winkler, S. 522.
 Winkler, V.W. 2843.
 Winkler, R. 1851.
 Winn, H.E. 3373.
 Winn, P. 1988, 4198.
 Wirz-Justia, A. 1942.
 Winokur, A. 2063.
 Winstanley, W.J. 3788.
 Winter, J.C. 2104, 3278.
 Winterbourn, M.J. 2815.
 Wirtshafter, D. 2024.
 Wirz-Justia, A. 1942.
 Wise, M.H. 2750.
 Wise, R.A. 916, 2137, 3273.
 Wishart, A.R. 2696.
 Wisniewski, C. 3193.
 Witcher, J.A. 3146.
 Witkowski, S. 3811.
 Witt, H. 3705.
 Witt, R. 1231.
 Wittenberger, J.F. 1346.
 Wittman, T.K. 1636, 2055.
 Witwer, C.M. 591.
 Witzell, W.N. 1460, 2682.
 Wixson, D.R. 1787.
 Wolach, A. 530.
 Wolach, A.H. 4006.
 Wolf, L.L. 309.
 Wolf, M.D. 931.
 Wolf, W.A. 1829.
 Wolfe, G. 968.
 Wolfe, G.E. 2199.
 Wolfe, J.L. 2855.
 Wolfe, L.D. 51.
 Wolff, J.O. 1570.
 Wolff, R. 1076, 1077.
 Wolken, J.J. 703.
 Wolhuis, O.I. 2157.
 Wolynetz, M.S. 763, 1094.
 Wonderlin, W.F. 4312.
 Wong, F.K. 742, 3978.
 Wong, M.A. 1513.
 Wong, P.T.P. 3833.
 Wong, T.M. 2776.
 Wong, Y.C. 870.
 Wood, B. 4052.
 Wood, D.L. 1135, 1425.
 Wood, D.L. 2502.
 Wood, K.M. 2330.
 Wood, P.L. 86.
 Wood, S.C. 912.
 Wood, T.E. 2165.
 Wood, V.A. 1620, 3348.
 Woodcock, A.J. 2512.
 Woodruff, D.L. 2621.
 Woodruff, G. 1804, 2982.
 Woods, J.H. 1021, 1023.
 Woods, S.C. 1033, 2136, 3653, 3741.
 Woods, W.E. 3276.
 Woodside, W.F. 4434.
 Woodsworth, G.C. 406.
 Woodward, D.J. 812.
 Wool, D. 2879.

- Wool, R. S. 3889
 Woolf, C. J. 4356
 Wooller, R. D. 2714, 3732
 Woolley, J. B. 4487
 Woolmington, A. D. 468
 Woolverton, W. L. 3232
 Wooten, V. 3242
 Woobec, S. W. 4032
 Wrangham, R. W. 1232, 1520
 Wray, S. R. 2915
 Wright, A. A. 588, 1664
 Wright, C. M. 2081
 Wright, J. 1640
 Wright, J. W. 2127
 Wright, R. D. 4232
 Wu, M. 942
 Wu, M. F. 2133
 Wu, R. S. S. 82
 Wu, Z. N. 21
 Wuensch, K. L. 1202
 Wunder, B. A. 945
 Wunderle, J. M., Jr. 351
 Wurtman, R. J. 1500
 Wyatt, R. J. 896
 Wyborne, V. G. 1938
 Wyler, A. R. 803
 Wysocki, C. J. 1182
 Wyrwicka, W. 1518, 4230
- Xenakis, S. 2042, 2123
- Yacos, K. V. 2110
 Yadin, E. 839
 Yahner, R. H. 473
 Yahr, P. 3320, 4404
 Yakovleva, G. V. 915
 Yakubovsky, A. K. 975
 Yamae, K. 2009
 Yamada, K. 848, 961
 Yamada, Y. 644
 Yamagishi, S. 1298, 2356
 Yamaguchi, Y. 2823
 Yamamoto, B. K. 1598
 Yamamoto, T. 2021, 4093, 4123
 Yamamura, K. 1016
 Yamamura, N. 2598
 Yamane, A. 1134
 Yamauchi, K. 1242
 Yamazaki, A. 1687
 Yan, K. 714
 Yanai, J. 4343
 Yang, C. 2387
 Yang, S. 3187, 3197
 Yanik, G. 980
 Yarbrough, G. G. 1982
 Yarensky, P. 538
 Yangin, K. N. 1989
 Yasukawa, K. 1303, 2362, 3414, 3539
 Ydenberg, R. C. 1221
 Yeagan, K. V. 1551, 3496, 3520
 Yeatman, F. R. 1889
 Yehuda, S. 521, 2002
 Yelov, Yu. M. 762
 Yeomans, J. S. 2059
 Yim, G. K. W. 2131
 Yin, C. H. M. 3138
 Yoburn, B. C. 1667, 1688, 4358
 Yodyingruad, U. 3573
 Yonce, C. E. 296
 Yonemori, T. 715
 Yonezawa, Y. 2376
 Yonkov, D. 974
 Yonkov, D. I. 2988
 York, J. L. 4285, 4482
 Yorke, E. D. 735
 Yoshida, H. 2395
 Yoshida, M. 2835
 Yoshimatsu, H. 2009
 Yoshimura, H. 1918, 1964
 Youdim, B. H. 521
 Young, A. H. 693
 Young, A. M. 1023, 2267
 Young, B. A. 407
 Young, C. M. 352
 Young, D. 24
 Young, E. R. 3277
 Young, G. A. 4384
 Young, J. G. 2167, 3862
 Young, L. 2099, 3247
 Young, O. P. 196, 310, 3871
 Young, R. 2158
 Young, R. A. 4442
 Young, R. E. 2252
 Young, W. G. 395
 Youngren, D. M. 783
 Yunger, L. M. 4385
 Yuwiler, A. 807
 Yvone, P. 501
- Zaagman, W. H. 4076
 Zadina, J. E. 1338
 Zagon, I. S. 2914

- Zagrodzka, J. 1014
 Zagustina, W. B. 1572
 Zahavi, A. 2322
 Zaiser, M. J. 228
 Zak, R. 3303
 Zalewska-Walkowska, M. 897
 Zalkow, L. H. 1189
 Zaloni, F. G. 145
 Zamble, E. 542, 2942
 Zammuto, R. M. 476, 2540
 Zamponi, M. O. 670
 Zanchetti, A. 75
 Zanker, J. 709
 Zatz, M. 764
 Zauralov, O. A. 1417
 Zavala, A. V. 778
 Zawistowski, S. 2881
 Zayan, R. 4443
 Zeeb, K. 1375
 Zeeman, E. C. 503
 Zehavi, U. 4093
 Zeigler, D. D. 3384
 Zeigler, H. P. 2013, 4159
 Zelger, J. L. 2090
 Zellner, D. A. 3979
 Zemp, J. W. 1609, 2111, 3245
 Zenick, H. 1605, 3241
 Zenone, P. G. 3550
 Zentall, T. R. 587, 1815, 2964
 Zerbolao, D. J., Jr. 2948, 3990
 Zernicki, B. 1591
 Zervas, G. A. 2415
 Zetler, G. 4335
 Zhang, G. 3218
 Zhang, X. 2387
 Zharkovsky, A. M. 2088
 Zharebetzova, O. V. 3822
 Zhou, J. 2888
 Zicus, M. C. 201, 2839
 Ziegler, D. R. 3916
 Zielinski, K. 722
 Zimmer, U. E. 3418
 Zimmerman, E. G. 2827
 Zimmerman, M. 112, 2653
 Zimmerman, R. H. 2407
 Zimmermann, B. 4284
 Zola-Morgan, S. 616
 Zoldag, L. 2207
 Zolman, J. F. 1720
 Zolovick, A. J. 785, 2150
 Zornetzer, S. F. 1821
 Zornilla, M. A. 2654
 Zucchi, R. 214
 Zucker, I. 184, 760
 Zuckerman, B. M. 4185
 Zukhar, A. V. 548, 2938
 Zuniga, C. Ma. 2807

Subject Index

- Abdomen,**
rhythms, neurophysiology, molting behavior, *Schistosoma* 1934
vibratory stimuli, communication, colonial characteristics, *Vespa vulgaris*,
Vespa maculifrons 2253
- Aberrant behavior,**
behavior therapy, age, dogs, cats 4455
radio-tagging, movements, methodology, *Aythya valisineria* 4425
- Ablation,**
adrenal gland, hormones, lordosis behavior, rats, mice 2177
amygdala, hypothalamus, osmoregulation, behavior, sodium chloride, rats 794
amygdala, operant conditioning, feeding, extinction, rats 3207
brain, cortex, discrimination learning, tactile perception, neurophysiology 598
brain, effects on consummatory behavior regulation, methodology, rats 902
brain, forebrain, feeding behavior, learning behavior, *Carassius auratus* 343
cerebellum, effects on eyelid conditioning, memory, rabbits 4177
cerebrum, walking, activity, Deiters' neurons, cats 3046
cerebrum, coordination, limbs, electromyographic activity, cats 3047
cortex, age effects, feeding behavior, grooming, sexual behavior, physical activity, rats 1956
cortex (auditory), conditioned response, auditory stimuli, rats 3173
cortex, effects on visual discrimination, rats 907
cortex, motor activity, environmental effects, rats 2029
cortex (sensorimotor), effects on motor skill, dogs 897
cortex, species behavior, neonates, hamsters 1959
cortex (visual), effects on visual perception, depth, cats 3059
cortex (visual), effects on visual perception, gerbils 721
eye, effects on activity patterns, circadian rhythms, *Helisoma trivolvis* 3088
eye, effects on maze learning, rats 888
forebrain, effects on oral behavior, chickens 3183
fornix, effects on discrimination learning, rats 2039
functional morphology, locomotor activity, *Amoeba proteus* 677
locus coeruleus, avoidance learning, scopalamine, norepinephrine, rats 571
nerves ablation, effects on avoidance learning, rats 798
olfactory bulb, brain enzymatic activity, aggressive behavior, drug effects, scopalamine, rats 1964
olfactory bulb, effects on activity patterns, rats 4225
olfactory bulb, effects on grazing, diets, sheep 4223
olfactory bulb, effects on parental behavior, sex differences, rats 2026
olfactory bulb, mating behavior, patterns, sex hormones, rats 1328
olfactory bulb, shock, effects on aggression, rats 70
olfactory bulb, taste aversion learning, antidepressants effects on, rats 3264
olfactory organs, mating behavior, serotonin, females, rats 793
ovary, effects on stereotyped behavior, rats 3325
ovary, estrus cycle, feeding behavior, diets, food preferences, rats 397
ovary, sexual behavior inhibition, progesterone, estradiol, rats 1050
ovary, sexual behavior, lordosis, 2-hydroxyestradiol, 4-hydroxyestradiol, rats 1048
ovary, sexual behavior, sex hormones, implants, estradiol, rats 1051
ovary, sexual behavior, sex hormones, serum levels, estradiol, progesterone, rats 1052
pallium, effects on thermoregulatory behavior, *Anolis carolinensis* 461
statocysts, effects on geotaxis, *Lymnaea stagnalis* 4034
suprachiasmatic nuclei, effects on circadian rhythms, feeding behavior, rats 4234
telencephalon, effects on escape learning, embryos, ducks 563
telencephalon, habituation, heart arousal response, *Carassius auratus* 3118
trigeminal nerve, effects on food intake, operant response, intracranial self-stimulation, rats 4159
urogenital gland, dust baths, cleaning behavior, females, chickens 784
vagus nerve, cholecystokinin, exploratory behavior, rats 3312
vagus nerve, effects on hyperphagia, rats 2034
Wulst, telencephalon, interocular transfer, visual discrimination, pigeons 4220
- Abortion,**
intraspecific relationships, males, sexual behavior, *Microtus ochrogaster* 2505
- Abra longicaulis,**
feeding behavior, burrowing behavior 429.
- Abra alida,**
feeding behavior, burrowing behavior 429.
- Abrams brama,**
predatory behavior, foraging behavior, light effects on 3692
- Abundance,**
colonies, *Reticulitermes flavipes* 85
food organisms, diets, reproductive behavior, *Asio otus*, British Isles, Scotland 1468
foraging behavior, predator-prey interactions, *Coccinella californica*,
Acyrtosiphon pisum 1430
males, factors affecting, colonial characteristics, *Myrmica* 1413
migrations, sewage treatment plants, Anisidae, Germany, Fed. Rep. 654
outwintering behavior, agricultural land, Aves 473
predation effects on, *Passer montanus*, *Leucocampa candida* 370.
- Acacia tortilis,**
food sources, feeding behavior, *Cercopithecus pygerythrus* 1520.
- Acacia xanthophloea,**
food sources, feeding behavior, *Cercopithecus pygerythrus* 1520.
- Acantocleides,**
crowding, effects on sex pheromone, sexual behavior 2255
- Acanthuridae,**
social behavior, dominance, aggressive behavior 3616.
- Acanthurus leucosternon,**
territorial behavior, feeding behavior, symbiosis, coral reefs 2350.
- Acanthurus lineatus,**
territorial behavior, feeding behavior, symbiosis, coral reefs 2350.
- Acan,**
feeding behavior, Netherlands, Maarseveen I L. 2612.
- Acarina,**
food organisms, anti-predator behavior, *Notiophilus biguttatus* 312.
- Acartia hudsonica,**
swarming behavior, feeding behavior, chemical stimuli, amino acids 3774.
- Acceleration,**
operant conditioning, shock, suppression 1640
- Accipiter,**
nesting behavior, reproductive behavior, egg laying 166
- Accipiter cooperii,**
nesting behavior, site selection, environmental factors, USA, Appalachian Mts 474
- Accipiter gentilis,**
predation, feeding behavior, movements, Sweden 1480.
- Accipiter nisus,**
nest provisioning, parental behavior, feeding behavior 2576
predatory behavior, food organisms selection, juveniles, *Parus* 2716
- Accipiter striatus,**
nesting behavior, feeding behavior, sexual dimorphism 2530.
- Acclimation,**
temperature, environmental effects, feeding, *Cryptotermes* 2794
temperature preferences, statistical analysis, *Onconotus obscurus* 2769.
temperature tolerance, habitat preferences, *Cryptotermes* 456.
- Acetaldehyde,**
effects on aggressive behavior, *Cichlosoma nigrofasciatum* 3223
- Acetic acid,**
effects on open-field behavior, activity patterns, rats 4296
effects on oviposition rhythms, *Drosophila melanogaster* 1279.
- Acetylcholine,**
aggression, neurophysiology, brain, mice 3162
levels, biosynthesis, hippocampus, striate cortex, avoidance learning, rats 4179
neurons, development, scopalamine effects on avoidance behavior, locomotor activity, rats 4347
- Acetylcholine receptors,**
phenylcyclidine effects on, motor activity, rats 4342
- Acetylcholinesterase,**
hippocampus, isolation effects on, *Meriones unguiculatus* 1918.
- Acetylcholinic acid,**
drugs, effects on water intake, drinking behavior, hypovolemia, rats 4393.
- Achatina fulica,**
locomotor activity, circadian rhythms 3091
- Achelognathus lancelotus,**
courtship, mating behavior, sex pheromone 3532.
- Acheia domestica,**
circadian rhythms, locomotor activity, pacemakers transplantation 3096.
oviposition, factors affecting, stereotyped behavior, substrate preferences 3512.
social environment effects on food consumption 3672.
visual perception, visual preferences, conditioning 4102
- Acinonyx jubatus,**
vocalization behavior 3432.
- Aciopener ruthensis,**
feeding behavior, pancreas 334
- Aciopener transmontanus,**
horizontal distribution, diurnal variations, seasonal variations, environmental factors, USA, Columbia R. 470
migrations, seasonal variations, daily, USA, Washington, Columbia R. 1847.
- Acomys cahirinus,**
activity patterns, exploratory behavior, locomotor activity 3362
sexual behavior, social behavior, experience 3559
siblings, feeding behavior, food intake, cooperation 400.
siblings recognition, huddling 1373
social behavior, early experience effects on 3628
- Acoustic communication,**
reproductive behavior, reproductive isolation, *Schizosoma ocreata*, *Schizosoma roseni* 1127
song, computer applications, *Cystosoma saundersi* 24
- Acoustic startle response,**
food availability, deprivation effects on, rats 4118
lepaquid side effects, cats 740
sensory stimuli, habituation, rats 531
visual perception, ontogeny, rats 1615
- Acoustic stimuli,**
auditory perception, neurons, seasonal variations, *Alytes obstetricans*
obstetricans, *Bufo viridis viridis* 3070
homing behavior, juveniles, cats 1856
- Acoustics,**
communication, sound production, stridulation, *Corixidae* 3381
external stimuli, ontogeny, feeding behavior, juveniles, *Alcidia* 1600
forests, effects on vocalization behavior, song, *Thryothorus ludovicianus* 39.
song, habitat, geographical variations, *Thryothorus ludovicianus* 3420
song, *Turdus merula* 3410
vocalization behavior, burrows morphology effects on, *Heleoporus* 33
- Acquisition,**
chain schedule, drug effects, antagonism, pigeons 3280
discrimination learning, avoidance learning, *Carassius auratus* 3990
discrimination learning, reinforcement schedules, rats 1782.
discrimination learning, transfer learning, rats 4001
extinction, drug effects, etracetam, rats 2157
operant conditioning, intracranial self-stimulation, cerebellum pathways, rats 4262.
operant response, drug effects, pimozide, rats 2137.
reinforcement, matching-to-sample, disruption, pigeons 1777.
reinforcement schedules, partial reinforcement extinction effect, rats 1632.
response, autoshaping, trace conditioning, interstimulus interval, pigeons 1659.
spn-tracking, goal-tracking, reinforcement schedules, rats 3936.
spatial discrimination learning, thalamic mediadorsal nucleus, mamillary bodies lesions effects on, cats 4245
taste aversion, age, sex differences, rats 2955.
- Acioidae,**
flight activity, orientation 679.
flight activity orientation, ocelli effects on 633.
- Acrolepiopsis assectella,**
egg laying, chemical perception, host plants 133.
mating behavior, circadian rhythms, adaptiveness 2391.
- Acomyrnax,**
swarming behavior, aggression, pheromones, workers 2558.
- Acrylamide,**
effects on operant conditioning, activity patterns, rats 4306.
- ACTH,**
effects on grooming, hippocampus lesions, rats 2031
effects on grooming, hippocampus lesions, rats 2043.

- ACTH, (continued)
effects on yawning behavior, guinea pigs 1056.
- Actinophrys** sol,
feeding behavior, predator-prey interactions, *Colpidium colpoda* 1400
- Actinopyga agassizii**,
feeding behavior, activity patterns, diurnal variations, Jamaica, Discovery Bay 3662
- Actitis macularia**,
mating behavior, sexual selection, breeding, colonies 3536
- Activity**,
appetitive conditioning, interference, shock, inescapable shock, learned helplessness, laboratory animals 2246
measurements, methodology, *Entamoeba histolytica* 1083.
night, equipment, cameras, *Insecta* 3355.
sexual behavior, sexual receptivity, aggressive behavior, conspecifics, males, mice 1197.
- Activity patterns**,
acrylamide effects on, rats 4306.
aggression, aggressive behavior, intraspecific relationships, sex differences, *Sturnus vulgaris* 62
alcohol effects on, intrauterine exposure, *Rodentia* 3244.
alcohol effects on, prenatal experience, rats 1610.
alcoholic beverages, intrauterine exposure, effects on, rats 3251.
anticonvulsants, opiates, anticonvulsants effects on 2166.
apomorphine, neurochemistry, dopamine, 5-hydroxytryptamine, rats 3271.
arousal, factors affecting, juveniles, rats 2224.
atmospheric conditions effects on, gases, *Ornithonyssus* 1538.
avoidance behavior, glycyrrhizin effects on, rats 3238.
avoidance behavior reflexes, purines effects on, rats 1982.
avoidance learning, shock, rats 3972.
breeding status, gravid, virgin, females, *Glossina morsitans morsitans* 2418.
breeding success, territorial behavior 1594.
burrowing behavior, environmental factors, diurnal variations, *Bufo americanus*, Canada 1558.
burrowing organisms, rhythms, nyctimeral rhythms, *Penaeus vannamei*, Mexico Coast 746
caffeine effects on, juveniles, rats 4309.
catecholamines, 6-hydroxydopamine effects on, rats 3174.
central nervous system development, sulfanilic acid effects on, rats 4311.
circadian rhythms, *Aotus tigris*, *Rousettus aegyptiacus* 1930.
circadian rhythms, circannual rhythms, environmental effects, *Carduelis spinus* 1936.
circadian rhythms, environmental effects, *Blatta orientalis* 4134.
circadian rhythms, *Helisoma trivolis* 3088.
circadian rhythms, *Noemacheilus barbatulus* 4136.
circadian rhythms, *Periplaneta americana* 3095.
circadian rhythms, photoperiods effects on, hamsters 1940.
circadian rhythms, seasonal variations, *Carduelis spinus* 4137.
circadian rhythms, seasonal variations, *Pteropus volans* 759.
circadian rhythms, temperature effects on, *Phyllotomus discolor*, *Molossus ater* 3092.
circadian rhythms, toluene effects on, rats 1016.
climbing, drug effects, apomorphine, dopamine agonists, naloxone, chlonalotrexamine, mice 984.
cocaine effects on, environmental conditions, rats 3221.
colomes, larvae, *Malacosoma americanum* 2793.
comparative studies, diurnal variations, *Crocidura* 494.
competitive behavior, *Saimiri* 695.
cortex (frontal) lesions, neonates, rats 2058.
courtship, *Cervus elaphus* rosevelti, USA, California 2485.
defensive behavior, coloration, sound production, *Sipylodes siphylus* 2319.
diel variations, burrowing behavior, *Geolycosa domifex* 431.
diel variations, Chasmodon bosquianus, *Opsanus tau* 2830.
diel variations, diel variations, polysaccharides, *Oziotelopus senex senex* 749.
diel variations, horizontal distribution, vertical distribution, *Xiphias gladius* 1595.
diets, feeding behavior, *Otocorys megalotis* 2761.
digging behavior, substrate preferences, *Peromyscus*, *Microtus*, *Mus*, *Onychomys*, *Rhabdomys* 1573.
diurnal variations, feeding behavior, social interactions, *Cercopithecus cephus* 498.
diurnal variations, littoral zone, *Littorina intermedia*, India Coast 1530.
diurnal variations, *Macrobrachium rosenbergii* 4065.
diurnal variations, marine fauna, *Xiphias gladius* 471.
diurnal variations, measuring techniques, *Thamnis dubius* 1867.
diurnal variations, seasonal variations, mathematical models, *Odocoileus virginianus* 2861.
diurnal variations, weather effects on, *Rodentia*, Canada, Quebec 483.
drug effects, enkephalin, intracranial chemical stimulation, rats 949.
drug effects, L-Dopa, apomorphine, methamphetamine, *Callithrix jacchus* 971.
drug effects, 6-hydroxydopamine, lesions, thalamus, rats 998.
experience effects on, noise, rats 3878.
EEG, Bufo regularis, *Rana temporaria* 3140.
electrophysiological recording, neurophysiology, methodology 810.
endotoxins effects on, defense mechanisms, predators, *Alcyonacea*, *Gambusia affinis* 2829.
epilepsy, hippocampus, neurophysiology, rats 3163.
2-ethoxyethanol effects on, intrauterine exposure, rats 4325.
exploratory behavior, genetic factors, albinism, mice 2886.
exploratory behavior, juveniles, *Saimiri sciureus* 2226.
exploratory behavior, locomotor activity, *Rattus norvegicus*, *Acomys cahirinus* 3362.
feeding behavior, coastal environments, sheep 2215.
feeding behavior, diurnal variations, *Echinodermata*, Jamaica, Discovery Bay 3662.
feeding behavior, dogs 384.
feeding behavior, habitat, wildlife conservation, *Dugong dugon* 2902.
feeding behavior, *Scopimera globosa* 3768.
feeding, habitat utilization, *Presbytis pileatus*, Bangladesh, Madhupur Forest 2489.
feeding, rhythms, measuring techniques, electronic equipment, *Channos channos* 3336.
fenitrothion effects on, rats 2099.
flight activity, settling behavior, *Rhopalosiphum* part 1845.
food availability, social organization, *Canis latrans* 2736.
food intake effects on, obesity, genetic control, rats 4488.
foraging behavior, diel variations, *Procyon lotor* 2746.
- Activity patterns**, (continued)
foraging behavior, food availability, *Anas* 3704.
foraging behavior, males, *Plebeia droyana* 3677.
foraging behavior, *Petroica australis australis* 3860.
glucose effects on, heat shock, rats 3121.
grooming, social behavior, *Melospiza undulatus* 3618.
habitat, *Apocera*, *Raphidomidas* 2796.
habitat preferences, forests, *Peromyscus maniculatus*, *Clethrionomys gapperi*, *Napeaopapus insignis* 488.
habitat preferences, photokinesis, *Tribolium castaneum*, *Tribolium confusum* 1548.
habitat utilization, breeding, *Anas platyrhynchos* 2895.
habitat utilization, moonlight effects on, *Dipodomys ordii* 2867.
haloperidol sensitivity, age effects on, rats 3302.
hibernation, hormones, *Nyctis lucifugus lucifugus* 2176.
hippocampus activity, rats 4194.
home range, vegetation patterns, rain forests, *Hylobates*, Indonesia 2871.
horizontal distribution, diurnal variations, seasonal variations, *Acipenser transmontanus*, USA, Columbia R. 470.
hormones effects on, rats 1058.
hormones, neurons, mechanisms, drug effects, physostigmine, pilocarpine, rats 848.
host searching behavior, *Medicago* host plants effects on, *Hypera postica* 1541.
host searching behavior, population density effects on, *Venturia canescens* 1556.
human impact, disturbance, *Ovis canadensis canadensis* 2863.
hyperphagia, tail-pinch stress effects on, rats 3367.
ibotenic acid effects on, rats 4331.
inipramine effects on, intrauterine exposure, rats 3237.
infants, man 212.
inodes ovatus 441.
jumping, fitness, genetic factors, *Mus musculus* 1589.
lead, parasites effects on, mice 3229.
livestock, pests effects on, *Haematobia irritans* 2209.
locomotion, fluphenazine decanoate effects on, mice 4289.
locomotor activity, circadian rhythms, vertical migrations, *Anisogammarus annandalei*, *Anisogammarus jessoensis* 3090.
locomotor activity, habitat, social environment, isolation, rats 1571.
locomotor activity, intrauterine exposure, nicotine, methamphetamine, rats 3243.
locomotor activity, reinforcement, cues, odors, trials, rats 1679.
males, pheromones effects on, interspecific relationships, *Dicystoploca japonica*, *Philosmia cynthia* 1145.
males, sex pheromone attractancy habituation, *Trichoplusia ni* 1147.
mating behavior, *Apanteles glomeratus* 1271.
mating behavior, dispersal, feeding behavior, *Batocera lineolata* 1593.
mating behavior, display, *Eldana saccharina* 1251.
mating behavior, oviposition, *Dioryctria amella* 1258.
maze learning, rats 3998.
measuring techniques, data acquisition, computer applications, microcomputers 3333.
metabolism, sleep 765.
mobility, habitat utilization, *Microtus arvalis* 3819.
monitoring methodology, electronic equipment, microwave radiation, radar, remote sensing 1079.
monosodium glutamate effects on, rats 4322.
morphine effects on, tolerance, rats 2122.
motor activity, fenitrothion effects on, rats 3247.
motor activity, phenylcyclidine effects on, rats 2117.
motor activity, rhythms, cattle 3107.
movements, diel variations, *Scapanus orarius* 2853.
movements, seasonal variations, *Oryzomys moschatus* 2862.
nandrol hydrochloride effects on, rats, dogs 2097.
neonates, isolation effects on, rats 3879.
neonates, methylmercury intrauterine exposure effects on, rats 4304.
nesting behavior, aggregation behavior, *Larus californicus*, *Larus delawarensis* 88.
neurochemistry, drugs, 5-hydroxytryptamine, catecholamines, release factors, rats 3178.
neurochemistry, 5-hydroxytryptamine release factors, monoamine oxidase inhibitors, L-DOPA, rats 3145.
noradrenaline, 5-hydroxytryptamine effects on, rats 4200.
olfactory bulb ablation effects on, rats 4225.
open-field behavior, lead acetate effects on, toxicity, rats 4296.
open-field behavior, lead effects on, mice 3268.
open-field behavior, phenobarbital effects on, intrauterine exposure, mice 3245.
open-field behavior, stress, rats 4483.
Oryzomys palustris, effects on sympatric populations, nesting behavior, distribution, *Ammodipus maritima* 420.
oxprenolol, diazepam effects on, rats 976.
parental behavior, females, *Desmognathus ochrophaeus* 2522.
phenobarbital effects on, prenatal experience, mice 1609.
pollution effects, drilling mud, *Homarus americanus* 3767.
polymorphism, behavior, colonial characteristics, larvae, *Malacosoma americanum* 2794.
predation, feeding behavior, geographical variations, littoral zone, *Gastropoda* 279.
quipazine effects on, neonates, rats 4341.
resource utilization, sympatric populations, *Leptomys* 1549.
rhythms, external stimuli, drug effects, peripheral nervous system depolarization, *Felis* 840.
rhythms, homing behavior, *Icthyophaga diapa*, *Chiton stokesii* 744.
rhythms, motivation, *Varroa jacobsoni oudemans* 3777.
rhythms, wheel running, captivity, *Isoodon macrourus*, *Parames nasuta* 3101.
roosting behavior, winter, *Motacilla alba*, British Isles, Oxford 1366.
seasonal variations, temperature effects, *Rattus fuscipes* 482.
sexual behavior, aggressive behavior, androgens, males, cattle 181.
social behavior, aggregation behavior, water availability effects on, *Hydrochoerus hydrochaeris* 2580.
social behavior, *Cypripodon salinus* 2569.
social behavior, diel variations, sleep, feeding, *Alouatta seniculus*, Venezuela 3666.
social organization, colonial characteristics, *Mallos gregalis* 3608.
solar eclipse effects on, rats 2859.
spatial distribution, predatory behavior, *Felis* 3865.
stereotyped behavior, glutamine effects on, rats 4218.
stereotyped behavior, molting, *Rhodnius prolixus* 2791.
stereotyped behavior, rhythms, infants 1627.
stress effects on, rats 1115.

Activity patterns, (continued)

- stress, handling effects on, pigs 3368
 swimming behavior, *Ensisfera* 3037
 swimming, circadian rhythms, photoperiods, juveniles, *Oncorhynchus gorboscha* 756
 swimming, environmental effects, *Citharichthys stigmaeus* 1871
 swimming, locomotion, *Oryzichthys bifata* 3028
 temperature, body size effects on, *Crangon crangon* 2775
 territorial behavior, *Salmo trutta* 694
 thermoregulatory behavior, diel variations, seasonal variations, *Aegistrodont* contortrix 2818
 thermoregulatory behavior, light effects, temperature effects, *Testudo graeca* 462
 thyrolibera effects on, goats 4407
 tidal effects, circadian rhythms, *Pomatoschistus minutus*, British Isles, Scotland, Norway, Oslofjord 754
 tidal rhythm effects on vertical migrations, *Centruidea decollata*, South Africa, Durban Bay 745
 tidal rhythm, littoral zone, *Pagurus geminus* 3770
 time allocation, social behavior, groups, *Macaca fuscata* 247
 time budgeting, temporal variations, feeding behavior, resting behavior, *Colobus*
badius rufonitratus, Kenya, Tana R. 517
 tonic immobility, p-chloroamphetamine effects on, chickens 2079
 triethyltin effects on, rats 2100
 trimethyltin effects on, hippocampus cell loss, rats 4316
 trimethyltin effects on, hippocampus degeneration, rats 4312
 turning, substantia nigra lesions effects on, rats 3191
 visual perception, genetic variance, heredity, *Columba livia* 3846
 walking, *Perodicticus potio* 1876
 wet dog shakes, drug effects, AMPA, rats 2170
 wildlife, tracking, radio-tagging, telemetry, electronic equipment 4429
- Acute toxicity,**
 hashish, dominance, sexual behavior, mice 941
- Acyrtosiphon gossypii,**
 diel activity, vertical migrations, spatial distribution, host plants 2814
- Acyrtosiphon kondoi,**
 predator-prey interactions, foraging behavior, *Chrysopa carnea*, *Hippodamia* convergens 1429
- Acyrtosiphon pleum,**
 predator-prey interactions, foraging behavior, *Chrysopa carnea*, *Hippodamia* convergens 1429
 predator-prey interactions, foraging behavior, hunger, abundance, *Coccinella californica* 1430
- Adalia bipunctata,**
 feeding behavior, host plants leaves morphology effects on 2647
 predatory behavior, cannibalism, prey abundance, predator-prey interactions, *Eucallipterus tiliae* 3508
- Adaptations,**
 competition, morphology, competitive behavior, *Podischnus agenor* 2781
 echolocation, *Rhinopoma hardwicki* 1858
 environmental stress, photophobotaxis, aggregation, coexistence, *Pagurus samuelis*, *Pagurus hirsutiusculus venturinus*, *Pagurus granosimanus*, *Pagurus* hemphilli 2771
 evolution, territoriality, interspecific relationships, aggression, natural selection 504
 fear conditioning, UCS, shock, rats 569
 learning, ethology, theories 4418
 nerves response, gustatory stimuli, bitterness, tongue, frogs 829
 nesting behavior, *Palaeorhiza gratioia* 1260
 neurons, classical conditioning, learning, models 1971
 parental behavior, brood care, protection, environmental conditions, *Euscorpis* 2516
 ponds, streams, courtship, mating behavior, *Ambystoma texanum* 3524
 survival, predation, cataplexy, mice 1575
 ventilatory behavior, morphology, *Platycephalus fuscus* 780
 visual stimuli, color, light, vision 701
 water intake, water resources, snow, sheep lactation 407
- Adaptiveness,**
 agonistic behavior, neurophysiology 52
 circadian rhythms, mating behavior, *Acrolepiopsis assectella* 2391
 colonies, social behavior, *Cynomys leucurus*, *Cynomys ludovicianus* 1371
 coloration, morphology, visual communication 700
 copulation, time, breeding success, *Nezara viridula* 1540
 fitness, slavery, *Formicidae* 506
 mating behavior, copulation, males, *Rodentia* 1325
 parasitoids effects on hosts survival, *Euphydryas phaeton* 451
- Adioryx zanthopythrus,**
 auditory perception, auditory stimuli 3073
- Adjuvative behavior,**
 effects on corticosteroids, plasma levels, pigs 3315
 operant response, triethyltin effects on, rats 4293
 reinforcement schedules, schedule-induced behavior, attack, pigeons 1688
 schedule-induced behavior, polydipsia, fixed time schedule, rats 1676
 stimuli generalization, schedule-induced behavior, polydipsia, rats 1784
- Administration,**
 rates, drug effects 2068
 rates, drug effects 2069
 rates, drug effects 2071
 rates, drug effects, historical account 2072
- Adoption,**
 infants, parental behavior, *Alouatta palliata* 3605
 parental behavior, *Papio ursinus* 2554
- Adoxyphes,**
 kaureones, eggs, host searching behavior, oviposition, *Ascogaster reticulatus* 3495
- Adoxyphes orana,**
 diurnal variations, flight patterns 1084
 flight activity, diurnal variations 684
- Adrenal cortex,**
 activity, social behavior, cattle 1372
- Adrenal gland,**
 hormone release, weaning, open-field behavior, avoidance behavior, juveniles, pigs 1348
 lordosis behavior, hormones, lordosis behavior, rats, mice 2177
 metabolism, social rank effects on, agonistic behavior, mice 1963
 steroids, antagonism, extinction, avoidance behavior, rats 3313
 stress, tonic immobility, behavioral genetics, *Sylvilagus floridanus* 788

Adrenal gland, (continued)

- weight, rearing effects on, rats 3119
- Adrenaline,**
 plasma levels, fear conditioning effects on, monkeys 2231
 plasma levels, stress, shock effects on, rats 3366
- Adrenergic,**
 antagonists, amnesia, avoidance learning, juveniles, chickens 1979
- α 2-Adrenergic receptors,**
 postsynapse, mediation, clonidine effects on locomotor activity, rats 4346
- Adrenergic transmission,**
 role, feeding behavior, rats 4231
- Adrenocorticotrophic hormone,**
 fear, aggressive behavior, defensive behavior, rats 1958
 intracranial chemical stimulation, drug effects, benzodiazepines, grooming, mice 2135
- Adults,**
 aggregation pheromone, dispersion pheromones, effects on larvae, *Biattella germanica* 26
 breeding, vocalization behavior, *Seiurus aurocapillus* 40
 males, social interactions, infants, *Papio cynocephalus* 1389
 migrations, geographical distribution, *Empidonax flaviventris* 3016
 play, social interactions, *Ursus maritimus* 2235
 tidal rhythm migrations, *Crangon crangon*, Wadden Sea 624
- Aechmophorus occidentalis,**
 sexual behavior, courtship, isolation, sympatric populations, dimorphism 172
 siblings competition, parental behavior 2526
- Aedes aegypti,**
 food organisms, food preferences, *Toxorhynchites theobaldi* 307
 hormones, 20-hydroxyecdysone, effects on host searching behavior, oviposition 3307
 host searching behavior inhibition, vitellogenesis effects on 1440
 oviposition, substrate preferences 2417
- Aedes togoi,**
 oviposition stimulants 114
- Aepygeros melampus,**
 foraging behavior, seasonal variations 2756
 juveniles, feeding behavior, food preferences 409
 social interactions, association, age effects 240
- Aequidens paraguayensis,**
 parental behavior, brood care, sex differences 2523
- Aerodynamic properties,**
 flight activity, slope soaring behavior, energy expenditure, *Pantala flavescens* 3033
 flight, locomotion, *Calliphora erythrocephala* 686
 locomotor activity, flight control, antennae, *Aglais urticae* 3035
 locomotor activity, flight control, antennae, *Aglais urticae* 3036
- Afrocinex,**
 mating behavior, natural selection 144
- Agama pallida,**
 thermoregulatory behavior, geographical variations 3797
- Agama savignii,**
 thermoregulatory behavior, geographical variations 3797
- Agama sinaita,**
 thermoregulatory behavior, geographical variations 3797
- Agapostemon angellus,**
 nesting behavior, nests morphology 2437
- Agapostemon cockerelli,**
 nesting behavior, nests morphology 2437
- Agapostemon sericeus,**
 nesting behavior, nests morphology 2437
- Agapostemon splendens,**
 nesting behavior, nests morphology 2437
- Agapostemon texanus,**
 nesting behavior, nests morphology 2437
- Agapostemon viracans,**
 nesting behavior, foraging behavior, cleptoparasitism effects on, *Nomada articulata* 1535
- Age,**
 aberrant behavior, behavior therapy, dogs, rats 4455
 acquisition, retention, conditioned response, taste aversion, rats 2955
 breeding success, parental behavior, *Branta canadensis maxima* 2456
 discrimination, male selection, courtship, *Peris prodoice* 2397
 effects on auditory discrimination learning, rats 2970
 effects on classical conditioning, conditioned response, rabbits 2936
 effects on drug effects, tonic immobility, chickens 4485
 effects on exploratory behavior, novelty, mice 3363
 effects on haloperidol sensitivity, activity patterns, rats 3302
 effects on homing behavior, *Oligocottus maculosa* 465
 effects on intracranial self-stimulation, neurophysiology, rats 4280
 effects on memory, maze learning, mice 2980
 effects on nesting behavior, *Mus musculus* 3592
 effects on sexual behavior, *Rattus norvegicus*, mice 3571
 effects on sexual behavior, hamsters 3554
 effects on sexual behavior, *Macaca mulatta* 2513
 effects on sound production (biological), *Glossina morsitans* 5
 effects on taste aversion learning performance, rats 3984
 feeding behavior, cleptoparasitism, *Fregata magnificens* 2729
 feeding behavior, social interactions, activity patterns, diurnal variations, *Cercopithecus cephus* 498
 females attractancy, mating behavior, males, *Tenebrio molitor* 3499
 food organisms, feeding behavior, *Haematopus ostralegus*, *Mytilus edulis* 3716
 locomotor activity, chronic effects, phenylcyclidine, juveniles, rats 1008
 male selection, feral populations, pigeons 173
 migrations, dispersal, sex differences, *Canachates canadensis* 664
 nutrient deficiency effects on open-field behavior, zinc, rats 3886
 population density, weaning, competition, *Mirounga angustirostris* 2484
 reproductive behavior, growth rate, nutrition effects on, *Papio cynocephalus* 2923
 scopolamine effects on avoidance behavior, locomotor activity, rats 4347
 sexual behavior, sex hormones, monkeys 2511
 social hierarchy, dominance, females, *Macaca radia* 99
 vocalization behavior, *Macaca fuscata*, *Macaca siliata* 3441
- Age composition,**
 sex ratio, population structure, male selection, *Rana sylvatica* 151
- Age effects,**
 association, social interactions, *Aepygeros melampus* 240

Age effects, (continued)

- avoidance behavior, learning behavior, drug effects, diazepam, rats 972.
- avoidance learning, rats 1745.
- cortex ablation, feeding behavior, grooming, sexual behavior, physical activity, rats 1956.
- exploratory behavior, cattle 2227.
- feeding behavior, food preferences, food organisms biomass, *Tyto alba* 374.
- feeding behavior, *Phytoseiulus persimilis*, *Amblyseius degenerans* 284.
- learning behavior, memory, novelty, mice 1825.
- lesions, cortex (prefrontal), behavior, rats 2035.
- males sex pheromone response, *Brachymeria lasus* 1138.
- mating behavior, courtship display, *Aix galericulata* 1316.
- maze learning, spatial discrimination learning, neurochemistry, *Rattus rattus* 845.
- memory, avoidance learning, mice 1821.
- memory, opiates effects on, rats 610.
- migrations, *Parulidae* 655.
- predation, spatial distribution, *Canis latrans* 89.
- sexual behavior, social behavior, aggressive behavior, *Macaca radiata* 192.
- social interactions, spatial distribution, protection, *Papio cynocephalus* 248.
- social rank, *Odocoileus virginianus borealis* 95.
- taste aversion learning, extinction, mice 1631.
- visual perception, visual discrimination 1898.

Agelais phoeniceus,

- foraging behavior, males quality, territorial behavior 1303.
- auditory discrimination, song, territorial behavior 3414.
- defensive behavior, territorial behavior, song 2362.
- discrimination learning, sound, performance, operant conditioning 1771.
- habitat preferences, roosting behavior, feeding behavior, Canada, Ontario 1564.
- mating behavior, nesting behavior, territorial behavior 1311.
- territorial behavior, territorial behavior, polygyny, breeding success 3539.
- nesting behavior, territorial behavior, USA, Minnesota 2474.
- song, conspecifics identification 2307.
- territorial behavior, arousal, vocalization behavior, song, interspecific relationships 233.
- vocalization behavior, spatial distribution, interspecific relationships, aggressive behavior, *Agelais phoeniceus* 3445.

Agelais phoeniceus,

- food organisms, feeding behavior, *Bufo americanus* hemiphys 2663.

Agelenopsis aperta,

- territorial behavior, food availability, population density 1218.

Aggression,

- survival value, intraspecific relationships, *Clibanarius digueti*, USA, California Gulf 80.

Aggregation,

- activity patterns, circadian rhythms, *Helisoma trivolis* 3088.
- adaptations, environmental stress, coexistence, *Pagurus samuelis*, *Pagurus maclaughlinae*, *Pagurus granosimanus*, *Pagurus hemphilli* 2771.
- breeding, fertilization, *Balanus glandula* 82.
- dispersal, foraging behavior, cattle 3350.
- environmental factors, oviposition, diurnal variations, *Zonocerus variegatus* 1280.
- intraspecific relationships, survival, habitat selection, *Clinocottus analis* 2831.

- resting behavior, sympatric populations, *Limax* 1216.
- settling behavior, survival, spatial distribution, *Portia portia* 83.
- sex pheromone biosynthesis, mating effects on, *Ips paraconfusus* 1149.
- territorial behavior, *Malurus splendens* 234.
- territorial behavior, spatial distribution, *Melanerpes formicivorus* 2359.
- workers recruitment, foraging behavior, pheromones, *Myrmica rugulosa* 2645.

Aggression behavior,

- activity patterns, diel variations, *Larus californicus*, *Larus delawarensis* 88.
- activity patterns, social behavior, water availability effects on, *Hydrochoerus hydrochaeris* 2580.
- aggregation pheromone, *Aponomma hydrosauri*, *Amblyomma limbatum* 1126.
- aggregation pheromone, *Camponotus pennsylvanicus* 3393.
- anti-predator behavior, avoidance behavior, *Halobates robustus* 3781.
- anti-predator behavior, *Schizolachnus piceus* 3782.
- Aplomyiopsis xylota* 2561.
- attractants, pest control, *Monochamus alternatus* 1134.
- colonial characteristics, queen effects on, *Myrmica rubra* 1531.
- foraging behavior, food availability, *Nasalis larvatus* 3761.
- interspecific relationships, sexual behavior, *Megarhyssa* 126.
- larvae, factors affecting, *Arge nigrinodosa* 428.
- nesting behavior, anti-predator behavior, *Limosa limosa* 3811.
- nesting behavior, territorial behavior, *Philanthus barbatus* 3611.
- night flight activity, convergence zones, atmospheric conditions, *Insecta* 3778.
- overwintering, clumping, gynes, *Polistes exclamans* 3466.
- roosting behavior, site selection, seasonal variations, *Sturnus vulgaris* 2572.
- sex discrimination, *Megarhyssa* 224.
- sexual dimorphism, *Tribolium castaneum* 215.
- sheltering behavior, marine environment, flotsam, *Pisces* 2823.
- social behavior, phototaxis, *Gryllus integer*, *Gryllus veletis*, *Teleogryllus oceanicus* 3463.
- social facilitation, energetics, food availability, *Ochrotomys nuttalli* 3820.
- social organization, spatial distribution, males, *Amblycorypha parvipennis* 1219.
- sound production, movements, spatial distribution, males, *Neoncotheophanes ensiger* 3467.
- swimming behavior, *Lissodelphis peronii*, *Marian Islands*, Benguela current 1569.
- temperature effects, movements, *Parus caeruleus* 229.
- temperature effects, *Stomoxys calcitrans* 447.

Aggregation pheromone,

- aggregation behavior, *Aponomma hydrosauri*, *Amblyomma limbatum* 1126.
- attractancy, *Tribolium castaneum*, *Tribolium confusum* 1139.
- effects on larvae, intraspecific relationships, *Blattella germanica* 26.
- mating behavior, males, *Rhyzopertha dominica* 1136.
- production site location, males, *Tribolium castaneum* 215.
- swarming behavior, *Camponotus pennsylvanicus* 3393.

Aggression,

- aberrant behavior, case surveys, veterinary medicine, *Canis familiaris* 3344.
- agonistic behavior, genetic factors, rats 1212.
- azaperone, housing effects on, weaning, pigs 2217.
- castration, testosterone effects on, males, mice 1207.
- p-chlorophenylalanine, effects on 5-hydroxytryptamine, brain, rats 2091.
- dominance, social interactions, testosterone, binding, central nervous system, mice 1045.

Aggression, (continued)

- drug effects, sleep (REM) deprivation effects on, rats 1946.
- early experience effects on, environmental conditions, burrows, rats 1206.
- ESB, hypothalamus, mediation, choline, muscarine, rats 3214.
- fighting, social hierarchy, *Canis latrans* 1205.
- hoarding behavior, territorial behavior, *Sitta europaea*, *Parus palustris* 2701.
- hormones effects on, mice 64.
- interspecific relationships, territoriality, evolution, natural selection, adaptations 504.
- intraspecific relationships, activity patterns, sex differences, *Sturnus vulgaris* 62.
- intraspecific relationships, castes, colonial characteristics, *Monomorium pharaonis* 1192.
- intraspecific relationships, juveniles, rats 1209.
- intraspecific relationships, pregnancy, *Macaca nemestrina* 1213.
- isolation effects on, mice 1198.
- man, primates, books 3374.
- maternal behavior, mother-offspring interactions, *Macaca fuscata* 1358.
- maternal behavior, prolactin effects on, mice 2180.
- midbrain hypothalamus interaction effects on, cats 66.
- neurophysiology, acetylcholine, choline, brain, mice 3162.
- predatory behavior, prey, mice 1515.
- reproductive behavior, pair bond, *Microtus ochrogaster* 191.
- sexual behavior, maternal behavior, infanticide, sociological aspects, *Macaca fascicularis* 194.
- shock effects on, olfactory bulb ablation, rats 70.
- social behavior, domestication, *Rattus norvegicus* 1203.
- social behavior, sex differences, dominance, *Meriones hurrianus* 1368.
- swarming behavior, pheromones, workers, *Atta*, *Acromyrmex* 2558.
- territorial behavior, intraspecific relationships, social behavior, *Muscicapa nigritula*, India 231.
- territorial behavior, sex differences, *Larus delawarensis*, USA, Michigan 2325.
- vocalization behavior, mating behavior, males, *Mirounga leonina* 1211.

Aggressive behavior,

- abundance, habitat, *Parcoblatta* 2812.
- adrenocorticotrophic hormone, rats 1958.
- agonistic behavior, attack, escape behavior, *Herpestes sanguineus* 2332.
- agonistic behavior, calcium valproate, aminooxyacetic acid effects on, mice 4390.
- agonistic behavior, social organization, goats 3635.
- alcohol effects on, *Cichlosoma nigrofasciatum* 3223.
- altruism, social behavior, colonies, *Rattus* 2575.
- assessment strategy, environmental factors, reproductive behavior, resource allocation, *Scaphophis stercoraria* 59.
- attack, *Formica lugubris*, *Formica cunicularia* 1193.
- attack, interspecific relationships, *Streptopelia decaocto*, *Passer domesticus* 2327.
- attack, shock effects on, mice 2338.
- behavior therapy, dogs 4458.
- biochemistry, epidermal growth factor, renin, mice 3124.
- brain function asymmetry, prenatal experience, light, chickens 3144.
- brain role, reviews, man 3462.
- breeding status effects on, *Meriones unguiculatus* 1336.
- cadmium, chronic effects, rats 63.
- carbachol effects on, cats 4270.
- castration effects on, *Saguinus fuscicollis* 244.
- chemical communication, avoidance learning, *Octopus joubini*, *Gonodactylus bredini* 425.
- chemoreception, urine, testosterone, males, rats 1184.
- cleptoparasitism, feeding behavior, *Sula bassana*, *Phalacrocorax carbo*, British Isles, Strathclyde 3864.
- colonial characteristics, life cycle, *Eriophora bistrata* 214.
- coloration, mimicry, *Saitis piscular* 2798.
- competition, *Vireo olivaceus*, *Vireo philadelphicus* 2324.
- conditioning, gentling, mouse killing, lesions, rats 2015.
- conspecifics, social receptivity, activity, sexual behavior, males, mice 1197.
- Coridae, 11 species, Costa Rica, Guanacaste Province 1433.
- courtship, dominance, males, *Epicauta pennsylvanica* 2396.
- courtship, *Gonatodes vittatus* 2893.
- cyclic AMP, neurotransmitters, mice, crickets 3176.
- cyclic GMP.
- defensive behavior, shock effects on, mice 2335.
- di-n-propylcatechol effects on, mice 4348.
- 5,7-dihydroxytryptamine lesions, hypothalamus, effects on muricide, rats 4246.
- dominance, inheritance, *Lagopus lagopus scoticus* 2326.
- dominance, rats 3456.
- dominance, recognition, *Potomion fluviatilis* 93.
- dominance, social behavior, *Chaetodontoides*, *Acanthuridae* 3616.
- drug effects, naloxone, mice 2119.
- drugs, apomorphine, chronic administration, clonidine, rats 4369.
- effects on renin plasma levels, males, mice 2329.
- evolution, social hierarchy, mathematical models 503.
- exploratory behavior, demography, *Microtus breweri* 2330.
- extinction effects on, stage model, man 3891.
- feeding behavior, competition, *Trigona*, *Phaethon superciliosus*, Costa Rica 1522.
- feeding behavior, opportunistic scavenging, coastal zone, Aves 2728.
- feeding behavior, sympatric populations, *Salmo gairdneri*, *Salmo clarki* 2321.
- feeding, *Bison bonasus*, Czechoslovakia 3447.
- females, reproductive state effects on, mice 65.
- fighting, attack, mice 3452.
- fighting, drugs, inducers, desmethylimipramine, antidepressants, rats 993.
- fighting, *Equus burchelli*, *Equus hemionus* 3454.
- frustration effects on, man 78.
- heritability, selection, *Mus musculus* 2884.
- histamine effects on, foot shock, rats 988.
- hormones effects on, social environment, isolation, mice 1196.
- hormones, *Meriones unguiculatus* 4404.
- inducers, drugs, apomorphine, stress, rats 1000.
- infanticide, feral populations, horses 3450.
- infanticide, males fitness, social rank, *Macaca mulatta* 1214.
- inhibition, drugs, buspirone, *Macaca mulatta* 1031.
- inhibition, intracranial chemical stimulation, 5-hydroxytryptamine, mice 847.
- interspecific relationships, effects on vocalization behavior, spatial distribution, *Cistothorus palustris*, *Agelais phoeniceus* 3445.
- interspecific relationships, intraspecific relationships, colonies, *Fornica lugubris*, *Formica cunicularia* 2317.

Aggressive behavior, (continued)

- interspecific relationships, intraspecific relationships, *Cichlasoma citrinellum* 3443
- interspecific relationships, juveniles, *Sorex isodon* 3458
- interspecific relationships, killer trout, *Paramecium aurelia*, USA, Indiana 1524
- interspecific relationships, *Mirounga leonina*, *Artiocephalus pusillus*, Namibia, Van Roonen Bay 480
- intracranial chemical stimulation, drug effects, 6-hydroxydopamine, reserpine, ventricles (cerebral), cats 997
- intraspecific relationships, activity patterns, sex differences, *Sturnus vulgaris* 62
- intraspecific relationships, body size, *Phymactis clematis*, Chile Coast 54
- intraspecific relationships, dominance, *Phymactis clematis*, Chile 1188
- intraspecific relationships, population regulation, *Clethrionomys gapperi*, Canada, Manitoba 1567
- isolation effects on, mice 1204
- isolation effects on testosterone role, mice 2183
- juveniles, males effects on, imprinting, rats 1202
- lead effects on, mice 4291
- lesions, septum, tryptophan, diets, rats 2022
- literature reviews, forebrain lesions, inhibition, rats 882
- males, androgens, estragens effects on, *Coturnix japonica* 1036
- males, females dominance, sex hormones, effects on, *Miophthecus talapoin* 3573
- males, teeth, functional morphology, *Babryoua babryoua* 67
- maternal behavior, social hierarchy, *Mus musculus* 1210
- mate selection, sexual selection, body size, *Brenus anchorage* 3421
- maternal behavior, females, *Mirounga leonina* 2545
- mathematical models, asymmetric contests 1077
- mathematical models, selfinteraction 1075
- mathematical models, symmetric contests 1076
- mating behavior, copulation, *Bulbucius iris* 1298
- mating behavior, sex hormones, gerbils 2496
- mating behavior, sound production (biological), *Orchelimum gladiator*, *Dissostena carolina* 143
- mediation, hypothalamus neurons, cats 4197
- menstrual cycle, *Macaca mulatta* 7345
- mice killing, inducers, genetics, serotonin, neurochemistry, rats 865
- morphology, sternal horn, *Doryphora punctatissima* 1190
- muricide, tryptophan effects on, rats 2336
- musth, males, *Loxodonta africana* 3459
- nesting behavior, males, *Betta splendens* 1194
- neurophysiology, brain, hypothalamus, rats 851
- olfactory bulb ablation, brain enzymatic activity, drug effects, scopolamine, rats 1904
- olfactory bulb lesions effects on, mice 74
- parental behavior, infanticide suppression, sex hormones, mice 68
- pheromones, olfactory communication, *Sus scrofa* 3437
- population density effects on, seasonal variations, sex differences, *Macaca fuscata* 79
- population density, home range, *Citellus pygmaeus* 3474
- population dynamics, *Microtus ochrogaster*, *Microtus pennsylvanicus* 3455
- predation, defense, development, early experience, adults, cats 71
- predation, defense, development, early experience, juveniles, cats 72
- predation, defense, development, hunger, juveniles, cats 73
- predation, *Larus argentatus*, *Clangula hyemalis* 2724
- predator-prey interactions, *Panulirus cygnus*, predators, *Octopus tetricus* 1187
- predator-prey interactions, *Phrynosoma platyrhinos*, *Pogonomymex rugosus*, USA, Nevada 1521
- pregnancy, females, mice 3449
- prolactin effects on, females, hamsters 2340
- prolactin effects on, *Peromyscus leucopus* 2333
- rearing effects on, mice 1201
- rearing, mother-offspring interactions deprivation, *Papio cynocephalus* 3461
- recognition, conspecifics, heterospecifics, visual stimuli, *Dasyllus aruanus*, *Dasyllus marginatus* 1195
- reproductive behavior, social organization, horses 2586
- scheduled reinforcement, strains, pigeons 1199
- seasonal variations, dominance, males, *Macaca fuscata* 193
- septum lesions, intraspecific relationships, males, hamsters 883
- septum lesions, social environment effects on, mice 4248
- sex differences, dominance, *Menones humanae* 1368
- sex differences, energetics, monogamy, *Rynchops niger* 2532
- sex differences, population density effects on, *Macaca fuscata* 3460
- sex hormones, drug effects, *Microtus townsendii* 69
- sex hormones effects on, females, mice 2334
- sexual behavior, activity patterns, androgens, males, cattle 181
- shock, cyproterone acetate effects on, rats 2140
- shock, phenylcyclidine effects on, rats 2102
- sleep (REM) deprivation, drug effects, apomorphine, rats 1005
- social behavior, *Capra waliae* 2582
- social behavior, *Hemigrapsus nudus*, USA, Washington, San Juan I. 1360
- social behavior, hormones, *Saimiri* 3330
- social behavior, intruder, *Saguinus oedipus oedipus*, *Saguinus fuscicollis fuscicollis* 1384
- social behavior, kinship, mice 3632
- social behavior, lesions, amygdala, 5-hydroxytryptamine, rats 895
- social behavior, ontogeny, chickens 3444
- social behavior, sex differences, *Macaca mulatta* 2342
- social behavior, sexual behavior, age effects, *Macaca radiata* 192
- social behavior, shock effects on, rats 3457
- social behavior, social hierarchy, *Cercopithecus aethiops* 1387
- social hierarchy, dominance, *Teleogryllus oceanicus* 2370
- social interactions, *Clethrionomys glareolus* 2587
- social interactions, modulation, hormones, males 4396
- social organization, *Dendrochirus zebra*, Japan, Izu I. 228
- social organization, inbreeding, *Mus musculus* 3630
- social rank, feeding behavior, rearing, chickens 3343
- social rank, females, *Cercopithecus aethiops* 2596
- territorial behavior, conspecifics recognition, *Plethodon cinereus* 2320
- territorial behavior, *Cordulegaster boltoni*, Germany, Fed. Rep., Fichtelgebirge 3465
- territorial behavior, scent marking behavior, *Polistes nimpha* 2345
- territorial behavior, testosterone effects on, *Microtus townsendii* 3476
- territorial behavior, *Vanessa atalanta* 2346
- testosterone effects on, females, mice 2341
- testosterone, plasma levels, females, horses 4459

Aggressive behavior, (continued)

- threatening behavior, display, *Pisces* 2322
- threatening behavior, males, mice 1208
- visual stimuli, conspecifics, *Betta splendens* 2332
- visual stimuli effects on, *Betta splendens* 61
- Agonistic behavior,**
- effects on sexual behavior, males, mice 3575
- hibernation behavior, longevity, *Mesocricetus brandti* 773
- 5-hydroxytryptophan effects on motor activity, *Caenorhabditis elegans* 4185
- memory, carbon dioxide, amphetamine, morphine, effects on, rats 4025
- sexual behavior, sexual receptivity, endocrinology, *Macaca radiata* 4416
- Agitation**
- emotional behavior, social interactions, juveniles, *Macaca mulatta* 1103
- Agkistrodon,**
- chemoreception, tongue flicking behavior 4104
- Agkistrodon contortrix,**
- thermoregulation behavior, activity patterns, diel variations, seasonal variations 2818
- Aglais urticae,**
- flight control, antennae, locomotor activity, aerodynamic properties 3035
- flight control, antennae, locomotor activity, aerodynamic properties 3036
- Agonistic behavior,**
- aggression, genetic factors, rats 1212
- aggressive behavior, attack, escape behavior, *Herpestes sanguineus* 2332
- aggressive behavior, dominance, rats 3456
- analgesia, opioids, rats 4165
- behavioral genetics, maternal effects, *Salvelinus fontinalis*, *Salvelinus namaycush* 2882
- calcium valproate, aminooxyacetic acid effects on, mice 4390
- captivity, *Erythrocephalus patas* 1342
- castes, colonial characteristics, *Lasiosomus zephyrum* 2562
- chemical communication, pheromones, *Procambarus clarkii* 1
- competition, social structure, social hierarchy, *Presbytis entellus* 2595
- courtship, sequence, patterns, *Aphyoseion gardeni* 1295
- defense mechanisms, social behavior, *Apicomiteline* 2318
- defensive behavior, carbachol effects on, cats 995
- display, *Sitta carolinensis* 2328
- display, social interactions, *Oplurus quadrimaculatus*, *Oplurus grandienis*, *Oplurus fienensis*, *Oplurus cyclurus*, *Oplurus cuvieri*, Madagascar 3613
- display, use, systematic, *Salicidae* 3378
- dominance, breeding success, males, *Papio* 2377
- dominance, coloration, *Ceropegia kawane* 3483
- fighting, *Pseudoechis porphyria* 60
- fighting, social hierarchy, *Canis latrans* 1205
- habitat preferences, nests, *Apis mellifera* 57
- inheritance, males, mice 2339
- intraspecific relationships, *Pagurus prideaux* 3442
- neurophysiology, adaptoviveness 52
- reproductive behavior, maturation, feathers, *Setophaga ruticilla* 513
- reproductive behavior, parental behavior, males, *Betta splendens* 3530
- sex differences, hormones effects on, *Macaca mulatta* 873
- social behavior, domestication, *Rattus norvegicus* 1203
- social behavior, dominance, females, *Heterotilia multispinosa* 1364
- social behavior, dominance, strains, chickens 2206
- social interactions, attraction, statistical analysis, horses 2200
- social interactions, males, *Mirounga angustirostris* 3448
- social interactions, scent marking behavior, monkeys 3643
- social organization, aggressive behavior, goats 3635
- social organization, *Canis lupus* 3446
- social rank, adrenal gland, mice 1963
- social rank, egg production, chickens 4447
- territorial behavior, breeding, *Oenanthe isabellina* 3622
- territorial behavior, reproductive behavior, *Larus marinus* 2459
- visual communication, resources, *Pagurus bernhardus* 2251
- Agonists,**
- cholinergic transmission, drug effects, pilocarpine, physical activity, cats 2155
- neurotransmitters receptors, effects on sexual behavior, rats 2149
- opioids, drug effects, feeding, drinking, rats 2150
- opioids, stereoselectivity, drug effects, feeding, rats 2131
- sex hormones, chronic exposure, effects on, sexual behavior, males, rats 1046
- Agonum dorsale,**
- predatory behavior, food selection, prey, foraging behavior 3509
- Agraulis vanillae,**
- migrations, weather, synoptic-scale wind systems 3007
- Agricultural land,**
- feeding behavior, breeding sites, *Agelaius tricolor*, USA, California 354
- overwintering behavior, abundance, Aves 473
- wildlife management, food preferences, habitat preferences, *Pardis pardis* 479
- Agricultural practices,**
- domestic animals, feeding behavior, reproductive behavior, social behavior 4444
- Agrotis munda,**
- migrations, flight activity, radar, Australia, Bass Strait 1835
- Aluropoda melanoleuca,**
- mating behavior, estrus, sex hormones 2502
- Air,**
- ionization, brain, neurophysiology, EEG, sleep, arousal 863
- ionization, learning behavior, memory, rats, mice 613
- ionization, neurophysiology, brain arousal, EEG, rats 864
- Air temperature,**
- thermoregulation effects on self-stimulation, salicylate, rats 2046
- Aix galericulata,**
- mating behavior, courtship display, age effects 1316
- Aix sponsa,**
- courtship, display, pair bond chronology, vocalization 1315
- Alactagapus aculeatus,**
- comfort behavior, feeding behavior 492
- territorial behavior, habitat utilization, population density, USSR, Kazakhstan 3473
- Alarm behavior,**
- auditory perception, *Panulirus longipes* 3066
- communication, foot slapping, *Fulica atra* 2297
- defensive behavior, attack, *Polybia occidentalis* 1191
- display, predators effects on, *Oplurus grandienis*, *Oplurus cyclurus* 2284
- foraging behavior, workers, colonial characteristics, *Macrotermes richaelsoni* 1592

- Alarm behavior, (continued)**
social behavior, communication, nests, *Synoecca surinama* 2254.
social rank, females, *Cercopithecus aethiops* 2596.
song, *Cisticola juncidis* 2306
vocalization behavior, duetting, *Oreotragus oreotragus* 2311.
vocalization behavior, juveniles perception, domestication effects on, *Anas platyrhynchos* 508
vocalization behavior, *Spermophilus belingi* 3431
vocalization behavior, *Spermophilus tridecemlineatus* 3430
- Alarm pheromone,**
alarm behavior, defensive behavior, attack, *Polybia occidentalis* 1191.
chemical communication, role, sternal gland, *Aneuretus simoni* 1143.
colonial characteristics, foraging behavior, colonial characteristics, *Formica polyctena* 1442.
response, environmental effects, *Apis mellifera* 1129.
- Alauda arvensis,**
feeding behavior, foraging behavior, winter 2732
- Albinism,**
genes, inbreeding, cognitive ability, locomotor activity, mice 1588.
genetic factors, exploratory behavior, mice 2886.
- Alcedo atthis,**
predatory behavior, food selection, prey, Belgium, Lesse R. 3715
- Alces alces,**
social interactions, seasonal variations 238
- Alcidiae,**
nesting behavior, ecology, feeding behavior, ontogeny, external stimuli 1600.
- Alcohol,**
= amphetamine, synergism, effects on motor activity, rats 3234.
blood levels, measuring techniques, rats 4427.
drinking behavior, estradiol benzoate effects on, rats 4410.
drinking behavior, septum lesions effects on, rats 4226.
drinking behavior, 5-hydroxytryptamine effects on, mechanisms, rats 4208.
drug effects, hippocampus role, rats 1998.
drug effects, prenatal experience, maze learning, rats 2168.
drugs, effects on maternal behavior, rats 4387.
effects on aggressive behavior, *Cichlosoma nigrofasciatum* 3223.
effects on H-reflex, motor activity, rabbits, man 2074.
effects on open-field behavior, mice 3277.
effects on seizures susceptibility, mice 2108.
effects on stereotyped behavior, performance, operant conditioning, rats 4334.
effects on wheel running, locomotor activity, rats 2103.
2-ethoxyethanol, intratracheal exposure, effects on motor activity, rats 4310.
food, reinforcement, rats 3928
hyperthermia, CS, UCS, stress, rats 4482.
intoxication, evaluation, methodology, mice 3267.
intratracheal exposure, effects on avoidance learning, rats 3279
intratracheal exposure, effects on avoidance learning, rats 4297.
intratracheal exposure, effects on food intake, water intake, rats 3257.
intratracheal exposure, effects on learning behavior, activity patterns, *Rodentia* 3244.
locomotor activity induction, drugs effects on, mice 967.
polydipsia, schedule-induced behavior, food availability, rats 3930
preferences, effects on discrimination learning, rats 4285
prenatal experience, effects on activity patterns, rats 1610.
prenatal experience, maze learning, avoidance behavior, escape learning, rats 574.
- Alcoholic beverages,**
intratracheal exposure, effects on wheel running, activity patterns, rats 3251
- Aleyonacea,**
endocrine effects on activity patterns, *Gambusia affinis* 2829.
- Alectoris chukar,**
approach behavior, avoidance behavior, novelty 2205.
- Aleurocanthus woglumi,**
hosts, parasitoid oviposition, host searching behavior, *Amitus hesperidum*, *Encarsia opulenta* 1550.
- Algae,**
food organisms, feeding behavior, *Calanoida* 2615.
food organisms, food preferences, *Pocillia reticulata* 335.
- (Z)-9-Alkenols,**
inhibition effects on chemical communication, sex pheromone, *Spodoptera litura* 29.
- Allactaga bulata,**
comfort behavior, cleaning behavior 492.
- Alligator mississippiensis,**
circadian rhythms, locomotor activity, photoreceptors 753
- Alligator mississippiensis,**
brood care, oral manipulation, eggs, hatching 3583.
cold tolerance, winter survival, thermoregulatory behavior 2819.
- Allium,**
effects on oviposition stimulation, *Hylemya antiqua* 129
- Alionarcs biloba,**
drumming, auditory communication 3386.
- Alionarcs proteus,**
drumming, auditory communication 3386.
- Alloxan,**
ventricle (fourth), effects on food intake, glucose metabolism, rats 4196.
- N-Allylnormetazocine,**
isomers, conditioned response, discrimination learning, rats 2139
- Aloua nestivals,**
feeding behavior, predatory behavior, zooplankton 3698.
- Alouatta palliata,**
dominance, social organization, spatial distribution, vocalization behavior 3649.
food preferences, digestive tract, functional morphology, *Ateles geoffroyi* 417.
mating behavior, tree-rubbing behavior 3871.
parental behavior, adoption, infants 3605.
reproductive strategy, reproductive behavior, dispersal 3579.
social interactions, population density effects on, copulation 196.
- Alouatta seniculus,**
social behavior, diel variations, activity patterns, sleep, feeding, Venezuela 3866.
- Alternation learning,**
body odors production, reinforcement 3903.
chemical stimuli, odors, reinforcement, rats 3948.
olfactory discrimination, odors, drug effects, naloxone, rats 2107.
operant conditioning, rats 3997.
operant response, attention task, contingency, sensitivity, man 1710.
- Alternation learning, (continued)**
reinforcement schedules, variable interval schedule, pigeons 1662.
visual discrimination, expectancy, response choice, rats 549.
- Altica ambiens,**
antifeedants, leaves, oils, *Thuja plicata* 2638.
- Altitude,**
effects on thermoregulatory behavior, *Anolis cybotes* 1560.
- Altruism,**
aggressive behavior, social behavior, colonies, *Larus* 2575.
behavioral genetics, polygenic inheritance, natural selection, models 3841.
brood care, *Lamprologus brichardi*, Burundi, Lake Tanganyika 227.
evolution, inbreeding, kin selection 502.
kin selection, environmental effects, mathematical models 499.
kin selection, evolutionary genetics, behavioral genetics, *Coleoptera* 3845.
kin selection, statistical genetics, evolutionary genetics, behavioral genetics 2874
natural selection, behavioral genetics, mathematical models 1063.
reproductive behavior, kin selection, *Nesomimus parvulus* 2467.
social behavior, reviews, *Delphinidae* 2581.
territory, parental behavior, families, *Hylobates klossii* 211.
vocalization behavior, food sources, *Parus atricapillus* 2295.
- Aluminum,**
effects on locomotor activity, avoidance learning, rats 4295.
- Alyscotermes killamandjaricus,**
agonistic behavior, defense mechanisms, social behavior 2318.
- Alysson conicus,**
nesting behavior, nest provisioning, predatory behavior 2518.
- Alytes obstetricans obstetricans,**
auditory perception, conspecifics vocalization behavior, neurons 3070.
- Amblyorhynchus parvipennis,**
males, social organization, spatial distribution, singing sites, aggregation behavior, population density 1219.
- Amblyomma albolineatum,**
mating behavior, courtship, reproductive isolation 3502.
- Amblyomma americanum,**
feeding, sexual receptivity, mating, oviposition 3518.
- Amblyomma limbatum,**
aggregation pheromone, aggregation behavior 1126.
mating behavior, courtship, reproductive isolation 3502.
- Amblyseius degenerans,**
feeding behavior, nutrient requirements effects on, food sources population density, age effects 284.
feeding behavior, predation, food sources population density effects on, larvae 283.
food availability, feeding behavior 1399.
predator-prey interactions, population density, predators, effects on food consumption, predatory behavior 2607.
predatory behavior, population density, spatial distribution, prey 2606.
predatory behavior, predator-prey interactions, spatial distribution, prey 2608.
- Amblyseius fallaci,**
predatory behavior, prey kairomones effects on, *Tetranychus urticae* 1901.
- Ambystoma maculatum,**
eggs, predation, larvae, ponds, *Chironomidae*, Canada, Quebec 320.
- Ambystoma texanum,**
courtship, mating behavior, adaptations, ponds, streams 3524.
- Ambystoma tigrinum,**
stress, chemical communication, conspecifics, avoidance behavior 2282.
- Amine oxidase (flavin-containing),**
inhibition, pargiline, hypothalamus, lordosis behavior, rats 4406.
- Amitus,**
brain, effects on conditioned response, unconditioned response, olfactory stimuli, *Apis mellifera* 3117.
brain, go/no-go discrimination learning effects on, cats 1991.
brain, stress effects on, rats 3369.
- Amino acids,**
AMPA, intracranial chemical stimulation, substantia nigra, catalepsy, rats 795.
chemical stimuli, chemotaxis, swimming behavior, *Bacillus subtilis* 4032.
chemical stimuli, feeding behavior, assays, *Hydra japonica* 3655.
chemical stimuli, feeding behavior, *Uca pugnator* 267.
chemical stimuli, swarming behavior, feeding behavior, *Eurytemora herdmanni*, *Acartia hudsonica* 3774.
diets, effects on maze learning, rats 1954.
taste preferences, feeding behavior, diets, *Suncus murinus* 3733.
- Aminobutyric acid,**
analogs, effects on food consumption, rats 3153.
di-n-propylacetate effects on distribution, mice 4348.
intracranial chemical stimulation, pons, effects on locomotor activity, running, rats 894.
role, benzodiazepine effects on, food preferences, rats 3292.
- Aminobutyric acid receptors,**
role, feeding behavior, 4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3-ol effects on, rats 4355.
- Aminoxyacetic acid,**
effects on agonistic behavior, mice 4390.
- Aminophylline,**
effects on self-injury behavior, rats 3266.
- 4-Aminopyridine,**
effects on comfort behavior, locomotor activity, excitation, horses 2093.
- Amitriptyline,**
effects on memory, rats 3231.
- Amitus hesperidum,**
parasitoids, host searching behavior, oviposition, *Aleurocanthus woglumi* 1550.
- Ammatomus icarioides,**
nesting behavior, biology, nest building 1247.
- Ammophila aberti,**
oviposition, predation evolution, cleptoparasitism 1539.
- Ammosipiza maritima,**
habitat preferences, nesting behavior, *Oryzomys palustris* activity patterns effects on 420.
- Amnesia,**
β-adrenergic antagonists, avoidance learning, juveniles, chickens 1979.
avoidance behavior, drug effects, d-glutamine, juveniles, chickens 2077.
avoidance learning, enkephalin effects on, rats 1013.
avoidance learning performance, circadian rhythms phase shift effects on, rats 615.
electrical stimulation, amygdala, hippocampus, foot shock, rats 917.

Amnesia, (continued)

- fear conditioning, hypothermia, rats 4011
- formix lesions, short term memory, long term memory, monkeys 619
- memory, avoidance behavior, conditioning, drugs, apomorphine, rats 981
- memory, hyperthermia, rats 609

Amniotic fluid,

- chemical stimuli, maternal behavior, dogs 3598

Amoeba proteus,

- functional morphology, locomotor activity, ablation 677

- functional morphology, locomotor activity, chemical stimuli, light effects 678

- locomotion, hydrodynamics 4066

AMPA,

- drug effects, wet dog shakes, catalepsy, thermoregulation, rats 2170

Amphetamines,

- = alcohol, synergism, effects on motor activity, rats 3234
- avoidance behavior, 5-hydroxytryptophan, rats 4382
- chronic administration, nucleus accumbens, drug effects, locomotor activity, tolerance, rats 985
- depression, substantia nigra, self-stimulation, drug effects, lithium, rats 1003
- dopamine agonists, stereotyped behavior, estradiol benzoate, rats 3311
- drug effects, arousal, Saimiri 741
- drug effects, behavior, intracranial self-stimulation, reinforcement, asymmetry, rats 973
- drug effects, physical activity, pons, norepinephrine, rats 2142
- drug effects, response, second-order schedule, visual stimuli, Saimiri 1026
- drug effects, stereotyped behavior, rats 2143
- drug self-administration, intracranial implantation, Macaca mulatta 1029
- drugs, discrimination, training, operant response, rats 1092
- drugs, hyperactivity, inducers, rats 994
- effects on aggression, juveniles, rats 1209
- effects on arousal, stereotyped behavior, rats 1002
- effects on avoidance behavior, mice 2084
- effects on avoidance learning, rats 3272
- effects on conspecific odors preferences, males, rats 929
- effects on exploratory behavior, mice 3240
- effects on hyperactivity, attenuation, rats 3288
- effects on locomotor activity, 5-hydroxytryptamine, dopamine levels, rats 4192
- effects on memory, aging, rats 4025
- effects on open-field behavior, locomotor activity, rats 987
- effects on schedule-induced behavior, monkeys, pigeons 4278
- effects on visual discrimination learning, rats 4354
- estrogen, progesterone, effects on lordosis behavior, rats 4380
- fluphenazine decanoate, effects on locomotor activity, rats 4340
- intracranial self-stimulation, age effects on, neurophysiology, rats 4280
- intracranial self-stimulation, substantia nigra, mechanisms, rats 4269
- intracranial self-stimulation, substantia nigra, tegmentum, striate cortex lesions, effects on, rats 4258
- intruterine exposure, effects on learning behavior, rats 525
- isomers, effects on locomotor activity, neonates, rats 4366
- melanotropin fragments, effects on, open-field behavior, avoidance behavior, rats 4363
- stress, effects on operant conditioning, rats 4323

D-Amphetamines,

- effects on avoidance learning, monkeys 3304
- effects on conditioned response, multiple schedule, rats 2124
- effects on drinking behavior, polydipsia, reinforcement schedules, rats 4358
- effects on matching to sample, pigeons 4349
- effects on operant response, maintenance, rats 1018
- intracranial self-stimulation, rats 4272
- intracranial self-stimulation, reinforcement, rats 4275
- intruterine exposure, effects on maze learning, locomotor activity, rats 4301
- lead, effects on locomotor activity, rats 3241
- role, short term memory 1807

Amphetamines,

- drug effects, feeding behavior, anorexia nervosa, juveniles, rats 2132
- drug effects, spectral analysis, observation methods, electronic equipment, rats 2234
- drug effects, suppression, food intake, fat metabolism, Rattus rattus 2086
- drug effects, variable interval schedule, reinforcement, response rates, rats 2161
- drug tolerance, role, classical conditioning, rats 2145
- effects on, conditioned reinforcement, operant response, Saimiri 2173

Amphiscolides debilis,

- food preferences, feeding behavior, bacteria 3660

Amphibia,

- parental behavior, sex differences, evolution 2515

Amphiscaia belli,

- nesting behavior, site location, Artemisia, vertical distribution 1305
- nesting, breeding success, territorial behavior, USA, Idaho 2465
- song, geographical variations 3412

Amphithoe valida,

- pollution effects, oil, nest building 1234

Ameyelos transitiella,

- sexual behavior, diel variations 2413

Anguilla,

- ablation, operant conditioning, feeding, extinction, rats 3207
- ablation, osmoregulation behavior, sodium chloride, rats 794
- coordination, motor activity, conation 3131
- effects on grooming, food consumption, locomotor activity, rats 3190
- electrical stimulation, food shock, memory, amnesia, rats 917
- electrical stimulation, kindling behavior, inference, rats 919
- electrophysiological recording methodology, telemetry, sexual behavior, rats 4211
- electrophysiological recording, role, feeding behavior, monkeys 872
- ESB, kindling, rats 2049
- intracranial chemical stimulation, progesterone, lordosis behavior, females, rats 1040
- lesions, effects on emotional behavior, exploratory behavior, monkeys 2061
- lesions, effects on grooming, food consumption, locomotor activity, rats 3190
- lesions, effects on learning behavior, visual stimuli, monkeys 3208
- lesions, effects on novelty avoidance behavior, mice 4240
- lesions, effects on olfactory discrimination learning, rats 2045
- lesions, effects on retention, fear conditioning, rats 4227
- lesions, effects on taste aversion, nutrient deficiency sensitivity, rats 2027
- lesions, fear conditioning, memory, recovery of function, retention, rats 3184
- lesions, feeding behavior, rats 4231

Amygdala, (continued)

- lesions, feeding behavior, satiety, hunger, rats 2036
- lesions, social behavior, juveniles, rats 886
- lesions, 5-hydroxytryptamine, social behavior, aggressive behavior, rats 895
- neurochemistry, catecholamine, schedule-induced behavior, Rattus rattus 841
- neurons, role, feeding behavior, electrophysiological recording, monkeys 2009
- opiates effects on, cardiac conditioning, rabbits 928

Anabrus simplex,

- mating behavior, courtship, females competition 1288

Anadara granosa,

- predator-prey interactions, feeding behavior, food preferences, Natica maculosa, Thais carinifer 281

Anagasta kuehniella,

- copulation, release factors, physical characteristics 124

Anaesthesia,

- agonistic behavior, opiates, rats 4165
- classical conditioning, shock, opiates, dorsolateral funiculus, rats 4212
- copulation, pain perception, brain opiates, rats 3123
- long-term, therapy, immunization, shock escape learning, rats 4121
- morphine, variable response, rats 4372
- shock, classical conditioning, opiates, mediation, nerves, hormones, rats 4160
- shock, stress, rats 4477
- stress, classical conditioning, opiates, mice 4479
- stress, escape behavior latency, rats 4480

Anaesthetics,

- drug effects, cerebrum serotonin levels, rats 944
- morphine, norepinephrine, naloxone, temperature effects, body temperature, food intake, rats 1001

Analgos,

- theories, fear, disinhibitory effect, dogs 2228

Analysis,

- locomotion, films, Arthropoda 1085
- methodology, man effects on animals social behavior 1082

Analytical techniques,

- auditory stimuli, cortex (auditory), mudbrain, neurons, Rana temporaria 732

Anamixis hansenii,

- mouthparts, morphology, feeding behavior 272

Anas,

- imprinting, prenatal experience, auditory communication, embryos 2907
- intraspecific relationships, recognition, behavior ecology 419

Anas acuta,

- foraging behavior, food availability 3704
- migrations, sewage treatment plants, Germany, Fed. Rep. 654

Anas americana,

- cleptoparasitism, interspecific relationships, avoidance behavior, Fulica americana 2850

Anas clypeata,

- foraging behavior, food availability 3704
- migrations, sewage treatment plants, Germany, Fed. Rep. 654

Anas crecca,

- migrations, sewage treatment plants, Germany, Fed. Rep. 654

Anas crecca carolinensis,

- copulation, courtship, mating behavior 3551

Anas diahors,

- foraging behavior, food availability 3704

Anas penelope,

- feeding behavior, winter food availability, British Isles, East Anglia, Oruse Washes 1475

Anas platyrhynchos,

- activity patterns, habitat utilization, breeding 2855
- avoidance behavior, predation, motor vehicles 2851
- color preferences, intraspecific relationships, 716
- domestication effects on alarm behavior, juveniles perception 508
- foraging behavior, food availability 3704
- foraging behavior, food availability 3711
- migrations, flight speed 3017
- nests, parasitism, egg laying, Aythya americana, Canada, Alberta 1299
- stress, markers, nasal saddles, winter 1107

Anas querquedula,

- migrations, sewage treatment plants, Germany, Fed. Rep. 654

Anas rubripes,

- avoidance behavior, chromium effects on 2949

Anas strepera,

- breeding, home range, habitat selection 3534

Anas strepera,

- cleptoparasitism, interspecific relationships, avoidance behavior, Fulica americana 2850

Anastrepha ludens,

- mating behavior, courtship, maturation 1285

Anatidae,

- migrations, sewage treatment plants, Germany, Fed. Rep. 654

Anatomy,

- brain, correlation, feeding behavior, Heteropneustes fossilis, Chana punctatus, Labo rohita 832
- brain, magnetic fields perception, pigeons 3083
- brain, reproductive behavior, Macropodus 1952
- brain, song, seasonal variations, Serinus cananus 2299
- chemoreception, feeding behavior, electrophysiological recording, Phormia regina 322
- colliculus, echolocation, predatory behavior, Rhinolophus ferrumequinum 801
- colliculus, neurons, mice 784
- correlation, hippocampus, neurons, avoidance behavior, genetic relationship, mice, rats 802
- lateral posterior nucleus, colliculus lesions effects on, hamsters 846
- neurons, cortex (occipital), environmental conditions, enrichment, rats 3154
- neurons, genetic factors, avoidance learning performance, mice 1587

Anchoa lamprotaenia,

- feeding behavior, diets, larvae 2685

Anchoa mitchilli,

- feeding behavior, diets, larvae 2685

Ancistrocercus adiabatus,

- parental behavior, brood care, feeding, life history 1257

Ancylostoma caninum,

- migrations, survival, host-parasite interactions, immunity, mice 1125

- Ancylostoma duodenale**,
copulation, mating behavior 2387
- Andrena erigeniae**,
feeding behavior, pollinators, environmental effects 291.
- Androgonis**,
aggressive behavior, parental behavior, infanticide suppression, mice 68
effects on aggressive behavior, males, *Coturnix japonica* 1036
effects on sexual behavior, lordosis behavior, rats 3328.
effects on sexual behavior, sex differences, rats 3320.
effects on social behavior, play, rats 3365.
effects on social rank dominance females *Equus caballus* 97
hormones, courtship, males, *Streptopelia risoria* 1035
intrauterine exposure, effects on females sexual behavior, rats 3888.
sexual behavior, aggressive behavior, activity patterns, males, cattle 181.
- Andropodus latrostris**,
sympatric populations, competition, foraging behavior, resource partitioning 2687.
- Androsthenol**,
pheromones, attractancy, man 3438.
- Anemotaxis**,
chemical stimuli, flowers, *Hadena bicurris*, *Deilephila elenor* 3008.
olfactory discrimination, chemotaxis, orientation, host searching behavior, *Alium cepa*, *Hylemya antiqua* 642.
- Anesthesia**,
effects on males sexual behavior, *Musca domestica* 107.
- Aneurates simoni**,
chemical communication, alarm pheromone, trail pheromone, role, sternal gland 1143.
chemical communication, sternal gland secretions 1146.
- Angiotensin**,
effects on drinking behavior, hypertension, rats 4202.
effects on drinking behavior, rats 1995.
effects on drinking behavior, rats 2007.
effects on drinking behavior, thirst, rats 411.
structure-activity relationships, drinking behavior, water intake, rats 4156.
- Angiotensin II**,
drinking behavior, osmoregulation, rats 1965.
- Anguilla australis**,
migrations, periodicity, environmental effects, New Zealand 650
- Anguilla dieffenbachii**,
migrations, periodicity, environmental effects, New Zealand 650.
- Anguillidae**,
olfactory perception, olfactory discrimination, water chemistry 3075
- Anhinga anhinga**,
thermoregulatory behavior, drying, wings 3817.
- Animal models**,
energy intake, predatory behavior, optimal search tactics 1390
natural selection, interspecific relationships, interaction, evolutionary genetics 1577
- Anisodorus nobilis**,
feeding behavior, diets 2622.
- Anisogammarus annandalei**,
activity patterns, vertical migrations, locomotor activity, circadian rhythms 3090
- Anisogammarus jesoensis**,
activity patterns, vertical migrations, locomotor activity, circadian rhythms 3090
- Anisoptera**,
flight activity, temperature effects, body size 1870.
- Anisopteromalus calandrae**,
exploratory behavior, host selection, parasitoids, *Callosobruchus maculatus* 3361.
- Annual cycles**,
migrations, *Balaena mysticetus*, Beaufort Sea 3025.
migrations, *Balaena mysticetus*, USA, Alaska, Cape Lisburne 3026.
reproduction, photoperiods effects on, *Callorhinus ursinus* 1318.
sexual reproduction, gonads, photoperiods, *Ploceus philippinus* 169.
sexual reproduction, hibernation, endogenous stimuli, *Eutamias amoenus*, *Eutamias munius* 3102.
- Annual variations**,
foraging behavior, environmental factors, *Odontotermes wallonensis*, India 2633.
migrations, population density, *Megaptera novaeangliae*, Tropical Pacific Ocean 666.
- reproductive behavior, feeding behavior, *Polinices alderi*, *Tellina tenuis* 282.
- Anolis**,
food organisms, predators feeding behavior, Aves 351.
home range, territorial behavior, social behavior, energetics 3248
predatory behavior, attack 3685.
- Anolis aeneus**,
foraging behavior, food selection, food availability 1450.
- Anolis carolinensis**,
pallium ablation effects on thermoregulatory behavior 461
prostaglandins effects on females sexual receptivity 1034.
- Anolis cybotes**,
thermoregulatory behavior, altitude effects on 1560
- Anopheles culicifacies**,
mating behavior, competition, chemosterilization, males, genetics 1248
- Anopheles ziemanni**,
visual evoked response, visual stimuli, avoidance behavior, hosts 1881.
- Anoplocheilys jordani**,
discrimination learning, mechanical stimuli, object detection 3076.
mechanical stimuli, object detection, lateral line mechanoreceptors 3079.
- Anorectic agents**,
drug effects, feeding behavior, reinforcement, rats 4351.
- Anorexia**,
amphetamine, drug tolerance, role, classical conditioning 2145.
- Anorexia nervosa**,
drug effects, amphetamines, feeding behavior, juveniles, rats 2132.
- Anosmia**,
taste aversion learning, poisoned partner effect, rats 3956.
- Anser**,
feeding behavior, photoperiods, diurnal variations 1465.
- Anser caerulescens**,
weather effects on migrations, USA, Texas 653
- Anser caerulescens caerulescens**,
egg laying, hatching behavior 1300.
- Anser canadensis caerulescens**,
migrations, flight speed 3017
- Anser indicus**,
seasonal variations, hormones, behavior, Germany, Fed. Rep., Seewiesen 4400
- Antagonism**,
adrenal gland steroids, extinction, avoidance behavior, rats 3313
drug effects, 2,5-dimethoxy-4-methylamphetamine, quipazine, metegoline, operant response, rats 2134.
social behavior, dominance, strains, chickens 2206.
- Antagonists**,
 β -adrenergic antagonists, amnesia, avoidance learning, juveniles, chickens 1979
apomorphine, drug effects, naloxone, chlormetrexamine, climbing, mice 984
codeine, drug effects, naloxone, operant response, behavior maintenance, *Macaca mulatta* 1027.
narcotics, drug effects, naloxone, feeding behavior, *Macaca mulatta* 1025
opiates chemoreceptors, naloxone, food intake, rats 946.
opioids, drug effects, feeding, drinking, rats 2150.
opioids, GPA 1843, drug effects, feeding, rats 2131.
tryptamine, drug effects, operant response, punishment, rats 2162.
- Antarctica, King George I.**,
sympatric populations, feeding behavior, food preferences, *Pygoscelis* 355
- Antennae**,
communication, trophallaxis, information theory, *Myrmica rubra* 2275.
flight control, locomotor activity, aerodynamic properties, *Aglaia urticae* 3035
flight control, locomotor activity, aerodynamic properties, *Aglaia urticae* 3036.
role, orienting response, chemotaxis, sex pheromone, *Periplaneta americana* 1843.
sense organs, effects on mating behavior, *Blattella germanica* 1275.
tracking, visual perception, *Gryllus campestris* 1882.
- Antennal chemoreceptors**,
mating behavior, recognition, males, *Drosophila bipunctata*, *Drosophila melanogaster* 4150.
- Antennal sensilla**,
electrophysiological recording, pheromones enantiomers, *Dendroctonus frontalis* 2261
- Antherea pernyi**,
flight activity, U.V. radiation effects on 3040
- Antherea yamamai**,
mating behavior, copulation, oviposition, calling behavior, Japan 1254.
- Anthias squamipinnis**,
sexual behavior, sex reversal, color, social behavior, females 337.
- Anthidium maculosum**,
territorial behavior, reproductive behavior 86.
- Anthidium manicatum**,
territorial behavior, reproductive behavior 86.
- Anthochaera carunculata**,
feeding behavior, territorial behavior, food availability, Australia 1476.
- Anthocharis cardamines**,
oviposition, edge effect, host searching behavior 2392.
- Anthrenus grandis**,
deterrents, feeding behavior, acids, oils, biochemical analysis, *Aleurites fordii* 300.
- Anthrenus grandis grandis**,
males, diapause, fertility, competition, sexual reproduction 1269.
- Anthrophoridae**,
feeding behavior, plants oils collection 311.
- Anthrozoa**,
locomotion, locomotor activity 670
- Anthus pratensis**,
reproductive behavior, breeding, nesting, Germany, Fed. Rep. 2469.
- Anthus spiloteta**,
feeding behavior, diets, food organisms 3707.
- Anti-predator behavior**,
avoidance behavior, aggregation behavior, *Halobates robustus* 3781
cirral withdrawal, *Balanus glandula* 2773.
death shamming, predators, *Hyasina brunnea*, *Panthera leo* 3832.
defensive behavior, *Myrmeloe*, Formicidae 2810.
food organisms, *Collembola*, *Acarina* 312.
food organisms, palatability, *Blarina brevicauda*, *Hyla versicolor* 2821.
foraging behavior, interspecific relationships, *Latrodectus hesperus*, *Pagonomymex rugosus* 2809.
foraging behavior, intraspecific relationships, freshwater environments, *Notonecta hoffmanni* 3779.
Microtus pennsylvanicus, avoidance behavior, *Blarina brevicauda* odors 2858.
mobbing, *Passeriformes*, *Circus cyaneus* 3816.
mobbing, *Riparia riparia*, *Streptopelia decaocto* 2849.
mobbing, seasonal variations, *Otus asio*, *Turdus migratorius* 2840.
nervous system physiology, chemical stimuli effects on, *Pecten ziczac* 816.
nesting behavior, aggregation behavior, *Limosa limosa* 3811.
open-field behavior, escape behavior, social behavior, rats, mice 3837.
parental behavior, *Corvus brachyrhynchos* 2541.
predator-prey interactions, energetics, *Thamnopsis elegans*, *Plethodon jordani* 3799.
predator-prey interactions, *Pisaster giganteus*, *Tegula pulliga*, *Calliostoma ligatum* 2619.
predator-prey interactions, *Syrphidae*, *Schizolachnus pineti* 3782.
scansorial behavior, climbing, trees, *Marmota monax* 3827.
sheltering behavior, night, *Scarus taeniopterus*, West Indies, Barbados Coast 3806.
soil-dropping behavior, *Tetranorium caespitum*, *Halictidae* 3792.
sympatric populations, *Trochidae* 432.
vigilance, feeding groups, *Antidorcas marsupialis* 3831.
- Anti-predatory behavior**,
predator-prey interactions, *Orius insidiosus*, *Sericothrips variabilis* 1551.
- Antibodies**,
lulberlin, effects on sexual behavior, males, rats 3327.
- Anticarsia gemmatilis**,
sexual behavior, calling behavior 1132.
- Anticonvulsants**,
opiates, effects on activity patterns, mice 2166.
- Antidepressants**,
chlordiazepoxide, effects on avoidance behavior, mice 2080.
drugs, inducers, desmethylinipramine, aggressive behavior, rats 993.
effects on activity patterns, open-field behavior, stress, rats 4483.
effects on escape behavior, tonic immobility, swimming, rats 2094.
effects on operant response, monkeys 1032.

Antidepressants, (continued)

- effects on taste aversion learning, olfactory bulb ablation, rats 3264
isolation, social environment, effects on locomotor activity, rats 523

Antidorsca marsupialis

- anti-predator behavior, vigilance, feeding groups 3831

Antifeedants

- plant extracts, oils, *Thuja plicata*, *Passodes strobil* 2638

Antigens

- central nervous system, cortex (visual), memory, rats 842

Antilocapra pilosulus

- flight activity, seasonal variations 1865

Antipsychotic drugs

- phenothiazines, conditioned response, fixed interval schedule, pigeons 2076

Antipsychotic drugs

- chlorpromazine, effects on learning behavior, rats 3235

Antisera

- cholesterolin, intracranial chemical stimulation, ventricles (cerebral),

- effects on avoidance behavior, rats 579

- S 100 proteins, effects on, handedness, visual discrimination, rats 797

Astrozeus pallidus

- feeding behavior, diets, fruits, evolution, food webs 1493

- feeding behavior, sensory stimuli, echolocation, diets 3736

Aura

- feeding behavior, food preferences, predators 328

- runway learning, reinforcement 1645

- vocalization behavior, predation effects on, *Chiroptera* 2280

Axiety

- chlordiazepoxide effects on, raphe nuclei mechanisms, rats 4371

Axyx capensis

- feeding behavior, diets, coastal environment 2749

Aotus trivirgatus

- circadian rhythms, activity patterns 1930

- parental behavior, infants development, siblings social interactions,

- mother-offspring interactions 208

- social behavior, feeding behavior, locomotor activity 3869

- thermoregulatory behavior, metabolism, temperature effects 497

- visual discrimination 1896

Apanteles eupydryidis

- parasitoids, host searching behavior, host-parasite interactions, *Eupydryas*

- phacton 3783

- parasitoids, host searching behavior, hosts defense mechanisms, *Eupydryas*

- phacton 2800

Apanteles glomeratus

- mating behavior, activity patterns, sex pheromone 1271

- mating behavior, body movements, orientation, copulation 3498

- oviposition experience, discrimination, hosts, *Pieris rapae crucivara* 3504

Apanteles melanoschus

- exploratory behavior, parasites, silk, exposure time, diurnal variations,

- Lymantria dispar* 450

Aphaenogaster longicaps

- feeding behavior, seeds, dispersal, *Lepidodermis laterale*, *Eucalyptus* 323

Aphagia

- hypothalamus lesions effects on, cats 4230.

Aphelocoma coerulescens

- insulins, social behavior, intraspecific relationships, reproductive behavior,

- selection, dispersal 230

Aphelocoma ultramarina

- infanticide, communal breeding, breeding behavior 167

Aphis citricola

- settling behavior, locomotor activity, host plants 453.

Aphyoseion gardneri

- agonistic behavior, courtship, sequence, patterns 1295.

Apicitermes lamani

- colonies, nest building 2404

- nest building (non-reproductive), termite, workers 2565

Apicomermis

- agonistic behavior, defense mechanisms, social behavior 2318

Apidie

- communication systems evolution, effects on size distribution 20

Aplocera

- habitat, activity patterns 2796

Apis

- feeding behavior, nectar secretion effects on, *Brassica campestris* 303

Apis cerana

- feeding behavior, nectar secretion effects on, *Brassica campestris* 303

Apis dorsata

- feeding behavior, nectar secretion effects on, *Brassica campestris* 303.

Apis florea

- display, wagtail dance, food sources, orientation, sky 3383.

- feeding behavior, nectar secretion effects on, *Brassica campestris* 303

- social behavior, apiculture, literature reviews 222.

Apis mellifera

- alarm pheromone response, environmental effects 1129

- brain amines, effects on conditioned response, unconditioned response, olfactory

- stimuli 3117

- chemical stimuli effects on boarding behavior 2792.

- colonial characteristics, queens pheromones effects on castes, social behavior

- 1363

- colonial characteristics, social behavior, queens, workers 1217.

- conditioned reinforcement, extinction, potentiation, overshadowing, odors, color

- 2962.

- consummatory behavior, measuring techniques 2195.

- disease resistance, brood disease, larvae removal, workers 3785.

- feeding behavior, nectar reward effects on 302.

- feeding behavior, pollination, *Malus domestica* 317.

- flight activity, optomotor response, visual stimuli, compound eyes 3034.

- food organisms, predation, *Misumena vatia* 273.

- food preferences, specialization, flowers, food composition, saccharides 1417.

- foraging behavior, chemical perception, attractants, pollinators 2635.

- foraging behavior, pollen attractancy 3675.

- habitat preferences, nests, limiting factors 57.

- boarding behavior, sucrose, 2-heptanone 3673.

- homing behavior, landmarks, food sources, foraging behavior 3002.

- magnetic fields receptors, orientation, communication 1911.

- mating behavior, oviposition 2394.

- mating, insemination, effects on oviposition 3515.

***Apis mellifera*, (continued)**

- morphology, behavior, phenology, seeds, *Trifolium repens* 1544

- Nasov's gland pheromones, attractancy, workers 2262

- orientation, foraging behavior, navigation behavior 3006

- orientation, polarization, light 4035

- pheromones production, chemical composition, seasonal variations 8

- predation, feeding immunity, *Apis bradfieldi* 3719

- social behavior, mating behavior, genetics 223

- swarming behavior, queens pheromones effects on 217

- vision, comparative studies, *Bombus hortorum* 707

- visual discrimination, color 1885

Apis mellifera adansonii

- visual discrimination learning, color, forms, light intensity 2961

Apis mellifera adansonii

- boarding behavior, sucrose, 2-heptanone 3673.

Apis mellifera carnica

- visual communication, dialects, foraging behavior, range 2268

- Apis mellifera ligustica*, queens sex pheromone, extracts, attractancy, workers 3389.

- visual communication, dialects, foraging behavior, range 2268.

Apis mellifera mellifera

- colonial characteristics, trophallaxis, chemical communication, castes 2277.

- orientation, navigation behavior, light polarization 4037.

Apis mellifica

- orientation, magnetic fields, geotaxis 1844

- scent marking behavior, foraging behavior 2272.

Aplocheilus lineatus

- feeding behavior, satiation 2686

- feeding behavior, swimming behavior, lateral line 3687

- mechanical stimuli, prey localization, feeding behavior 3077.

Apionomyia sylota

- aggregation behavior 2561.

Aplysia

- feeding behavior, handling effects on 1406

- locomotor activity, circadian rhythms, optic nerve, neurophysiology 3089.

Aplysia brasiliensis

- orientation, swimming, visual stimuli, navigation behavior 631.

- swimming behavior, orientation, sense organs, direction finding, waves 632.

Aplysia californica

- memory, learning behavior, neurophysiology 2984.

- motor activity, stereotyped behavior, neurophysiology 4182.

- reflexes (gill withdrawal), neurons 822.

- reflexes (gill-withdrawal), habituation, mechanisms, nerve transmission

- depression 4183

- reflexes (gill-withdrawal), neurons 821.

- reflexes (gill-withdrawal), neurons, gills 819

- reflexes (gill-withdrawal), ontogeny 2905.

- reflexes (gill-withdrawal), sensitization, neurons 820.

Apodemus sylvaticus

- magnetic fields, navigation behavior, routes 668.

Apomorphine

- effects on climbing, DFP sensitivity, mice 990

Apomorphine

- chronic exposure, effects on, stereotyped behavior, locomotor activity, rats 849

- dopamine agonists, stereotyped behavior, estradiol benzoate, rats 3311.

- drug effects, activity patterns, posture, *Calithrix jacchus* 971.

- drug effects, aggressive behavior, sleep (REM) deprivation, rats 1005.

- drug effects, dopamine agonists, naloxone, chloralhydrate, climbing, mice 984.

- drug effects, licking behavior, sniffing, rats 2127

- drug effects, morphine tonic immobility, juveniles, chickens 1980

- drugs, avoidance behavior, memory, amnesia, conditioning, rats 981

- drugs, food deprivation, induces stereotyped behavior, rats 992.

- drugs, inducers, aggressive behavior, stress, rats 1000

- effects on aggressive behavior, chronic administration, clonidine, rats 4369.

- effects on conditioned suppression, motor activity, shock, rats 4392.

- effects on dopamine receptors sensitivity, avoidance learning performance, rats

- 978

- effects on intracranial self-stimulation, ESB, rats 4265.

- effects on locomotor activity, 6-hydroxydopamine lesions, rats 890.

- effects on memory, glycoprotein biosynthesis, hippocampus, learning behavior,

- rats 4337

- effects on open-field behavior, locomotor activity, rats 987.

- effects on reinforcement, dopaminergic mediation, behavioral contrast, rats 3156

- effects on stereotyped behavior, climbing, mice 3301

- effects on stereotyped behavior, locomotor activity, rats 3299.

- effects on taste aversion learning, rats 2101

- effects on tonic immobility, chickens 1122.

- neurotransmitters, activity patterns, cats 3271

- phencyclidine behavior, neurotransmitters, stereotyped behavior, locomotor

- activity, rats 1012

- shock, foot shock, jumping, neurophysiology, rats 852.

Aponomma hydroasauri

- aggregation pheromone, aggregation behavior 1126.

- mating behavior, courtship, reproductive isolation 3502.

- pheromones, attractancy, conspecifics 3376.

Appendages

- handedness, juveniles 779.

- physical activity, neurophysiology, electrical properties, *Echinus esculentus*

- 3133

Appetite

- lesions, amygdala, rats 2036

Appetitive behavior

- appetitive conditioning, operant conditioning, transfer learning, rats 542.

- neither/mercury effects on, intrauterine exposure, rats 1612.

- operant conditioning, *Lepomis macrochirus* 2929.

- visual stimuli, neurons, cortex (visual), neurophysiology, cats, rabbits 2008.

Appetitive conditioning

- aversion learning, hippocampus waves activity, cats 869.

- classical conditioning, ESB, rats 2942.

- CS, auditory stimuli, rats 3939.

- discrimination learning, rats 2940.

- discrimination learning, reinforcement, serial feature-positive discrimination,

- rats 1701.

- discrimination learning, retention, rats 4002.

- discrimination learning, vasopressin effects on, rats 4175.

- gustatory stimuli, anticipation learning, rats 3922.

Appetitive conditioning, (continued)

- hallucinogens effects on, rats 4360.
- hunger, conditioned response, sign-tracking behavior 2943.
- hypothalamus electrical stimulation, reinforcement dissociation, rats 918.
- odors, novelty, neonates, rats 3927.
- omission training, autoshaping, rats 1681.
- operant conditioning, transfer learning, rats 542.
- performance, dopamine effects on, mice 611.
- reinforcement, behavioral contrast, rats 3933.
- reinforcement, behavioral contrast, rats 3934.
- reinforcement, learned helplessness, rats 3935.
- response topography, reinforcement, rats 1684.
- satiety effects on, rats 1700.
- septum activity, excitation, inhibition, rats 839.
- shock, inescapable shock, interference, activity, learned helplessness, laboratory animals 2246.
- shock, learned helplessness, runway learning, mice 1754.
- stimulus control, blocking, pigeons 2932.
- taste preferences, satiety effects on, rats 3923.

Approach behavior,

- avoidance behavior, reflexes 1591.
- hypothalamus, central gray intracranial self-stimulation, escape behavior, rats 2051.
- novelty, *Alcortis chukar*, *Chrysolophus pictus*, *Phasianus colchicus* 2205.
- ontogeny, males, rats 2921.
- orientation, cortex (anteromedial) lesions effects on, rats 4241.
- withdrawal response, man, Sus 1100.

Aptenodytes patagonicus,

- diving, energy budget, feeding behavior 1478.

Apterionotus albifrons,

- electrolocation, electric perception, neurophysiology 3072.
- electrolocation, electric perception, object perception 3071.

Apis bradfieldi,

- foraging behavior, predation, feeding immunity, *Apis mellifera* 3719.

Aquatic animals,

- communication, vibratory stimuli, surface water, reviews, *Gerridae* 2271.
- migrations, geographical distribution, *Aves*, Beaufort Sea, USA, Alaska 1849.

Aquatic environments,

- evolution, locomotion, bipedalism, man 3856.
- movements, methodology, radio-tagging, *Chelonidae* 4423.
- predatory behavior, webs, structure, function, *Wendigarda* 1395.
- swimming, *Odobenus* 1875.
- vegetation patterns effects on predation efficiency, *Cyprinodontidae*, *Decapoda*

Aquatic organisms,

- attraction, bioluminescence 3049.
- geotaxis, magnetic fields, orientation, homing behavior, navigation behavior, reviews 2990.
- sound production, stridulation, communication, *Coriadidae* 3381.

Aquila chrysaetos,

- predatory behavior, prey, *Gruis americana* 1487.

Aquila pomarina,

- birds of prey, migrations, weather, spring 1850.

Aquila pomarina/clanga,

- birds of prey, migrations, weather, spring 1850.

Arachnidae,

- food organisms, feeding behavior, food preferences, *Sceliphron madraspatanum* 1438.

Aradidae,

- flight activity, seasonal variations 1864.

Aralia blaptida,

- pollinators, foraging behavior 3671.

Arancae,

- courtship, copulation, reviews 2382.

Aranecidae,

- webs, food organisms escape behavior, *Lepidoptera* 440.

Aranidae,

- avoidance behavior, defensive behavior, predators 3789.

Aranidae,

- foraging behavior, strategy, webs, site location 2610.

Aranidae,

- foraging behavior, predation, energetics, habitat variation 3665.

Archilochus colubris,

- feeding behavior, night, artificial light 2719.

Archips rosanus,

- diurnal variations, flight patterns 1084.

Arctictis binturong,

- sexual behavior, copulation 187.

Arctophila australis,

- colonial characteristics, vocalization behavior, territorial behavior 2901.

Arctophila gazella,

- females, feeding behavior, diving, energy budget, Falkland Is. 1496.

Arctophila pusillus,

- interspecific relationships, aggressive behavior, *Mirounga leonina*, Namibia, Van Reenen Bay 480.

Arcuate nucleus,

- necrosis, monosodium glutamate effects on, activity patterns, rats 4322.

Arenaria cinerea,

- feeding behavior, prey dunking 3729.

Arenaria herodias,

- cleptoparasitism, *Larus marinus* 2695.

Arenaria herodias,

- feeding behavior, diel variations, predation 2699.

Arenaria herodias,

- nesting behavior, coexistence, *Phalacrocorax auritus*, USA, Montana 2461.

Ardeidae,

- flocking behavior, food sources 356.

Ardeola ibis,

- nesting behavior, colonies, breeding success, competition, France, Camargue 1306.

Ardeola ralloides,

- nesting behavior, colonies, breeding success, competition, France, Camargue 1306.

Area postrema,

- lesions, dopamine, agonists, antagonists, rats 3149.

Area postrema,

- lesions, effects on taste aversion learning, rats 568.

Area postrema,

- lesions, effects on taste perception, palatability, food intake, rats 893.

Arenaria cinerea,

- effects on predatory behavior, *Putorius furo* 4178.

Arenaria cinerea,

- feeding behavior, *Larus fides* 3720.

Arenaria cinerea, (continued)

- foraging behavior, social behavior, dominance, Canada, Manitoba 2696.

Arenaria cinerea,

- orientation, gravity receptors, sensilla 1907.

Arge nigrinodosa,

- larvae, factors affecting aggregation behavior 428.

Arginine vasopressin,

- effects on emotional behavior, rats 3359.

Argiope aurantia,

- vibratory stimuli, physical activity, behavior response 3065.

Argiope aurantia,

- webs structure, stabilimenta, defense mechanisms 1525.

Argiope bruennichi,

- predatory behavior, food preferences, *Lepidoptera* 2611.

Argiope lobata,

- webs structure, stabilimenta, defense mechanisms 1525.

Argiope trifasciata,

- foraging behavior, predation, energetics, habitat variation 3665.

Argiope trifasciata,

- webs structure, stabilimenta, defense mechanisms 1525.

Argiopidae,

- webs, food organisms escape behavior, *Lepidoptera* 440.

Argyrodus baboquivari,

- cleptoparasitism, predation, feeding behavior 1416.

Argyrodus fecitulum,

- cleptoparasitism, predation, feeding behavior 1416.

Argyrodus subdulus,

- cleptoparasitism, predation, feeding behavior 1416.

Ariolimax columbianus,

- locomotion, mathematical models 675.

Arizona elegans,

- thermoregulatory behavior, body temperature 2822.

Aroma,

- hormones, effects on sexual behavior, *Mesocricetus auratus* 186.

Arousal,

- activity patterns, factors affecting, juveniles, rats 2224.
- cortex, electrical properties 1973.
- EEG, cerebellum, sleep, cats 2005.
- EEG, cortex, nerve transmission, cats 860.
- electrophysiological recording, hypothalamus neurons, rats, rabbits 3167.
- habituation, telencephalon lesions, *Rattus rattus* 3182.
- heart response, habituation, telencephalon ablation, *Carassius auratus* 3118.
- hypertension, water deprivation, operant conditioning, rats 1696.
- intracranial chemical stimulation, hippocampus (dorsomedial), thyrotropin-releasing hormone, *Citellus lateralis* 2063.
- light effects, drug effects, *Saimiri* 741.
- locomotion, cortex, nerve transmission, skin 812.
- methylphenidate acid effects on, horses 3276.
- neurons activity, cats 4205.
- neurophysiology, brain, EEG, air ionization, rats 863.
- sexual behavior, age effects on, mice 3571.
- sexual behavior, *Papio ursinus*, social environment effects on 1340.
- stereotyped behavior, amphetamine, hormones effects on, rats 1002.
- vocalization behavior, song, territorial behavior, interspecific relationships, *Agelaius phoeniceus* 233.

Arrenurus crassicaudatus,

- feeding behavior, Netherlands, Maarsveen I L. 2612.

Artemisia nova,

- food sources, food preferences, *Odocoileus hemionus* 412.

Artemisia tridentata,

- food sources, food preferences, *Odocoileus hemionus* 412.

Artemisia forbesii,

- feeding behavior, *Mercenaria mercenaria* 1398.

Arthropoda,

- locomotion analysis, films 1085.
- movements, interspecific relationships, encounters, mathematical models 2777.
- orientation, locomotion 2994.

Artibeus jamaicensis,

- reproductive behavior, harem defense, energetics 1320.

Artificial substrates,

- effects on breeding success, nesting behavior, *Corvus monedula* 2460.

Ascia monuste orseis,

- mating behavior, environmental factors, temperature, copulation 2405.

Asclepias syriaca,

- host plants, effects on predation, *Misumena vatia* 273.

Ascogaster reticulatus,

- host searching behavior, oviposition, kairomones, eggs, *Adoxophyes* 3495.

Asio flammeus,

- parasitoids, host searching behavior, oviposition 3492.

Asio flammeus,

- feeding behavior, food organisms, *Gastropoda* 2723.

Asio flammeus,

- food consumption, flight 3728.

Asio otus,

- diets, reproductive behavior, British Isles, Scotland 1468.

Asio otus,

- food organisms, predators feeding behavior, *Pituphis melanoleucus* 2662.

Association,

- colonies, *Reticulitermes flavipes* 85.
- discrimination learning, serial pattern learning, alphabet, rats 2974.
- feeding behavior, leaf litter, *Turdus philomelos*, *Talpa europaea* 2600.
- feeding behavior, *Talpa europaea*, *Turdus merula*, *Erethiza rubecula* 2599.
- interspecific relationships, *Polistes metricus* 221.
- mating behavior, *Larus argentatus* 159.

Association,

- selectivity, theories, dogs 2187.

Association,

- social behavior, interspecific relationships, *Primates* 2594.

Association,

- social interactions, age effects, *Acrycops melampus* 240.

Association,

- social organization, ecological distribution effects on, *Callimico goeldii*, *Saguinus*, Bolivia 1380.

Association analysis,

- reinforcement, associative learning, memory, mathematical models 1066.

Associative learning,

- avoidance behavior, light, saccharin, avoidance behavior, shock, aversion learning, rats 1749.

Associative learning,

- classical conditioning, motivation, nictitating membrane response conditioning, rabbits 1762.

Associative learning,

- conditioned inhibition, US preexposure phenomenon, shock 1638.

Associative learning,

- conditioned suppression, external stimuli, reinforcement 1641.

Associative learning,

- conditioning, reviews 3901.

Associative learning,

- cortex (prefrontal) lesions, *Macaca mulatta* 4250.

Associative learning, (continued)

- heart rate, vagal cardiac neuron, cardiac conditioning, neurophysiology, visual evoked response, pigeons 1981.
- memory, association analysis, reinforcement, mathematical models 1066
- memory, mathematical models 1061.
- mutation, habituation, sensitivity, *Drosophila* 3844
- nutrient deficiency effects on, zinc, rats 3882
- preconditioning, UCS, effects on, eyelid conditioning, rabbits 1694
- role, foraging behavior, *Columbia livia* 3723.
- stimulus quality, dogs 4005.
- taste aversion learning, nutrient deficiency, thiamine, rats 1756
- taste, sound, shock, avoidance learning, cues, rats 1750
- visual discrimination learning, movements, eye, *Macaca arctoides* 1797
- vocalization behavior, visual stimuli, *Gracula religiosa* 3400
- Assortative mating**
- males quality, territorial behavior, *Agelaeus phoeniceus* 1303
- male selection, cross-breeding, population structure, *Columbia livia* 3538
- Astacidae**
- escape behavior, motor activity, neurons, neurophysiology 3134
- Astacus**
- defensive behavior, motor activity neurons, excitation, inhibition, habituation 823
- escape behavior, neurons, giant axons, tails 824
- Astemizole**
- intracranial self-stimulation, hypothalamus, rats 3220
- Asteroides**
- feeding behavior 263
- Asymmetry**
- brain function, prenatal experience, light, chickens 3144
- cerebral dominance, Corpus callosum, early experience 3132
- cerebral dominance, early experience effects on 1949
- cerebral dominance, phenylalanine, rats 3169
- cortex (frontal), hyperactivity, neurotransmitters, 6-hydroxydopamine, rats 800.
- morphology, cortex, handedness, cerebral dominance, visual discrimination, cats 796
- posture, enkephalins effects on, rats 1989
- reinforcement, intracranial self-stimulation, drug effects, amphetamine, behavior, rats 973
- Atalaphelobites**
- del activity, drift, Australia 434
- drift, environmental effects, Australia, A.C.T., Condor Creek 433
- Ateles Geoffroyi**
- food preferences, digestive tract, functional morphology, *Alouatta palliata* 417
- Ateles**
- feeding behavior, food preferences, predators 328
- Atelochloris muricata**
- agonistic behavior, defense mechanisms, social behavior 2318
- Atelochloris rastratus**
- agonistic behavior, defense mechanisms, social behavior 2318
- Atherigona soccata**
- del variations, oviposition, hatching, eggs, adult eclosion 3093
- feeding behavior, larvae, host plants 2784
- oviposition deterrents, pheromones, population density 1252
- oviposition, substrate preferences, host plants, *Sorghum vulgare* 3493
- Atherinops affinis**
- sympiosis, cleaning behavior, *Eschrichtius robustus* 1452.
- sympiosis, cleaning behavior, *Eschrichtius robustus*, Mexico, Baja California 421
- Atlapetes brunneitucha**
- territorial behavior, calling behavior, vocalization behavior 2354
- Atlapetes plicatus**
- territorial behavior, calling behavior, vocalization behavior 2354
- Atmospheric conditions**
- convergence zones, night flight activity aggregation behavior, *Insecta* 3778
- gases, effects on activity patterns, *Ornithonyssus* 1538
- ionization, effects on avoidance learning, rats 567
- olfactory stimuli, flight activity, orientation, chemoreception, *Insecta* 2797
- Atonia**
- sleep (paradoxical), exploratory behavior, cats 3114
- Atropine**
- anticholinergic compounds, effects on schedule-induced behavior, *Macaca mulatta* 4388.
- drug effects, discrimination learning, cues, rats 1006
- effects on aggression, cats 66.
- effects on exploratory behavior, mice, rats 3287
- effects on hyperphagia, hypothalamus (medial) lesions, rats 2042
- toxicosis, nutrient deficiency, recovery, thiamine, taste aversion learning, rats 1727.
- Atta**
- swarming behavior, aggression, pheromones, workers 2558.
- Atta columbica**
- feeding behavior, food plants, water content, food preferences 1423.
- Atta insularis**
- foraging behavior, circadian rhythms, seasonal variations 2654.
- Atta laevigata**
- DNA content, mating behavior correlation 130.
- Attachment**
- behavior, *Colicium* 673.
- Attack**
- aggressive behavior, *Equus burchelli*, *Equus hemionus* 3454
- aggressive behavior, *Formica lugubris*, *Formica cunicularia* 1193.
- aggressive behavior, mice 3452.
- aggressive behavior, shock effects on, mice 2338
- agonistic behavior, aggressive behavior, escape behavior, *Herpesotes sanguineus* 2332.
- defensive behavior, alarm behavior, *Polybia occidentalis* 1191.
- defensive behavior, *Rattus norvegicus*, *Rattus rattus* 3453.
- discrimination learning, prey, rats 2331.
- interspecific relationships, *Streptopelia decaocto*, *Passer domesticus* 2327.
- literature reviews, forebrain lesions, inhibition, rats 882.
- predators, food organisms defensive behavior effects on, *Onychomys torridus* 3744
- predatory behavior, *Anolis* 3685.
- predatory behavior, *Serrastruma sermula* 2656.
- schedule-induced behavior, adjunctive behavior, reinforcement schedules, pigeons 1688.
- social behavior, septum lesions, rats 3199.

Attention

- immobilization, rhythms, cortex, thalamus, cats 862.
- maze learning, stereotyped behavior, drugs, dopamine, mice 982
- β -rhythms, ventral mesencephalic tegmentum regulation, cats 4204.
- selectivity, lithium effects on, rats 2148
- selectivity, visual evoked response, neurons 1972.
- Attention task**
- operant response, alternation learning, contingency, sensitivity, man 1710.
- Attentionation**
- song, forests, effects on vocalization behavior, *Thryothorus ludovicianus* 39
- Attenuation**
- avoidance behavior, amphetamine effects on, mice 2084
- hyperactivity, amphetamine effects on, rats 3288.
- Attila spadiceus**
- predatory behavior, prey handling, energetics, food organisms, *Insecta* 3712.
- Attractancy**
- aggregation pheromone, *Tribolium castaneum*, *Tribolium confusum* 1139.
- androstenol, pheromones, man 3438
- coloration, leg bands, male selection, *Poephila guttata* 4086
- dipropyl disulfide, oviposition, EAG responses, chemoreception, *Hylemya antiqua* 1286.
- dung, learning behavior, *Enterolobium cyclocarpum* seeds, *Liomya salvini* 3952.
- females, age, mating behavior, males, *Tenebrio molitor* 3499.
- females, sex pheromone, *Lygoecis communis* 3390.
- food attractants, comparative studies, *Hylemya* 11.
- food, feeding behavior, mathematical models, *Misgurnus anguillicaudatus* 2683
- Nasovoy gland pheromones, workers, *Apis mellifera* 2262.
- odors, hamsters 1922
- pheromones, chemotaxis, sex differences, *Trichinella spiralis* 1528.
- pheromones, conspecifics, *Aponomma hydrosauri* 3376
- pheromones enantiomers, *Dendroctonus frontalis* 2261.
- pollen, foraging behavior, *Apis mellifera* 3675
- queens sex pheromone, extracts, workers, *Apis mellifera ligustica* 3389.
- sex pheromone, chemical communication, *Zygaena* 2264
- sex pheromone components, *Heliothis zea* 1151
- sex pheromone, habituation, *Trichoplusia ni* 1147.
- sex pheromone, role, mating behavior, *Rhagoletis cerasi* 3392.
- sex pheromone, sexual behavior, crowding effects on, *Acanthoscelides* 2255.
- sexual behavior, pregnancy effects on, rats 2493.
- Attraction**
- chemical composition, males, *Pseudaleia unpuncta* 13.
- chemical perception, effects on foraging behavior, pollinators, *Apis mellifera* 2635.
- chemotaxis, *Allium cepa*, microorganisms, volatiles, synergism, *Hylemya antiqua*, *Fannia canicularis* 638.
- chemotaxis, *Skeletonema costatum*, *Flavobacterium*, *Pseudomonas* 2997
- females, reproductive behavior, *Lucilia cuprina* 10.
- food, attractancy, sex differences, comparative studies, *Hylemya* 11.
- food organisms, effects on reproductive behavior, *Sitotroga cerealella* 121.
- identification, aggregation behavior, pest control, *Monochamus alternatus* 1134.
- β -ketoadipate, mutants, chemotaxis, *Pseudomonas putida* 629
- morpholine, chemotaxis, *Salmo* 4044
- pheromones, vagina secretions, *Pan troglodytes* 3439
- sex pheromone, bait, traps, *Dioryctra discolora*, USA, South Carolina 639.
- sex pheromone, *Trichoplusia ni*, pheromone traps, *Scites orbiculatus* 1836.
- visual stimuli, visual evoked response, hosts, *Mansonella*, *Anopheles ziemanni* 1881
- Attraction**
- bioluminescence, aquatic organisms 3049
- conspecifics, social behavior, mobility, sexual dimorphism, rats 2578
- pheromones, interspecific relationships, *Dendroctonus brevicornis*, *Ips paracandens* 1135
- prey, burrowing behavior, *Cicindela willistoni*, USA, Arizona, Sulphur Springs Valley 2802.
- sex pheromone, orientation, males, *Periplaneta americana* 2999
- social interactions, statistical analysis, horses 2200
- visual stimuli, photographs, visual evoked response, conspecifics, *Dasyllus ananias* 1886.
- Auditory communication**
- calling behavior, *Gryllidae* 2258
- drumming, geographical variations, *Pteronarcia badia* 3386.
- drumming, *Plecoptera* 3384
- drumming, population density, *Bonasa umbellus* 1173
- echolocation, sound, books, *Mammalia* 3372
- fish 34
- man, *Primates*, books 4494
- mating behavior, hybrids, isolation, *Rana pipiens*, *Rana blairi* 31
- parental behavior, nesting behavior, *Oceanodroma furcata*, USA, Alaska, Barren Is 2527
- perception, mother-offspring interactions, *Mus musculus* 47
- prenatal experience, imprinting, embryos, *Ans* 2907
- recruitment, colonial characteristics, *Larus bullen* 2289
- reproductive isolation, song, geographical variations, *Muellenaella* 3382
- reproductive isolation, sympatric populations, *Tympanuchus cupido*, *Pediceetes phasianellus* 2288
- reproductive status, intraspecific relationships, *Megaptera novaeangliae*, Hawaii, Tropical Pacific Ocean 46
- song, acoustics 3410
- song, *Cicadetta sinuata* 1144
- song, conspecifics identification, *Agelaeus phoeniceus* 2307
- song, early experience effects on, *Zonotrichia leucophrys* 1162.
- song, geographical variations, *Emberiza calandra* 2305
- song, geographical variations, *Oenanthe picta* 3411
- song, geographical variations, *Toxostoma rufum* 3404.
- song, habitat, *Caprimulgus carolinensis*, *Caprimulgus voliferus*, USA, Georgia 1158.
- song, habituation, *Zonotrichia leucophrys nuttalli* 1630.
- song learning, *Melospiza georgiana* 1164.
- song learning, ontogeny, *Fringilla coelebs* 1168
- song, *Nezara viridula* 3388.
- song recognition, sex differences, *Phylloscopus collybita* 3418.
- song, vocalization, *Lybus torquatus* 1169.
- sound production, *Balaena mysticetus* 2309
- sound production (biological), *Glossina* 1141
- sound production (biological), males, *Zonocerus variegatus* 1142.
- sound production (biological) variability, *Drosophila nasuta* 30.
- sound production, biology, reviews, *Aves* 3407.

Auditory communication, (continued)

- sound production, diurnal variations, tropical environment, *Cicadidae* 2267.
- sound production, *Gromphadorhina chopardi* 3387.
- sound production, neurophysiology, *Opsanus tau* 4187.
- stridulation, *Xanthippus corallipes* 19.
- sympatric populations, interspecific relationships, auditory discrimination, mating behavior, *Hyperolius* 1153.
- vocalization behavior, distress, *Passeriformes* 2298.
- vocalization behavior, feeding, competition, juveniles, *Cuculus canorus* 3815.
- vocalization behavior, *Fulmarus glacialis*, *Oceanodroma leucorhoa* 3401.
- vocalization behavior, geographical variations, *Mammalia* 2310.
- vocalization behavior, mating behavior, males, *Hyla arborea savignyi* 2283.
- vocalization behavior, ontogeny, *Passeriformes* 3403.
- vocalization, *Tympanuchus cupido*, *pedioceetes phasianellus* 1170.

Auditory discrimination,

- auditory perception, *Melospittacus undulatus* 4109.
- auditory perception, rats, *Cebus apella* 3062.
- discrimination learning, rats 2969.
- mating behavior, sympatric populations, interspecific relationships, *Hyperolius* 1153.

- reaction time, loudness 3063.
- reaction time, loudness 3064.
- song dialects, response, *Zonotrichia leucophrys* 1167.
- song, territorial behavior, *Agelaius phoeniceus* 3414.

Auditory discrimination learning,

- age effects on, rats 2970.
- matching-to-sample, short term memory, *Tursiops truncatus* 3996.

Auditory perception,

- alarm behavior, *Panulirus longipes* 3066.
- auditory discrimination, *Melospittacus undulatus* 4109.
- auditory discrimination, rats, *Cebus apella* 3062.
- auditory stimuli, mating behavior, courtship, *Drosophila mercatorum* 3069.
- auditory stimuli, *Teleostei* 3073.
- background levels, auditory stimuli effects on 1926.
- conditioning, learning, conferences 2249.
- drug effects, avoidance behavior, *Rattus rattus* 966.
- echolocation, destruction inferior colliculus, neurophysiology, brain, *Rhinolophus ferrumequinum* 669.
- leptazol side effects, acoustic startle response, rats 740.
- localization, neonates 1928.
- loudness, reaction time 3063.
- loudness, reaction time 3064.
- neurons, conspecifics vocalization behavior; seasonal variations, *Alytes obstetricans* 3073.
- obstetricans, *Bufo viridis viridis* 3070.
- neurophysiology, rabbits 3171.
- sense organs, functional morphology, *Tettigonidae* 1908.
- sound frequency, binaural masking 4095.
- sound frequency, perceptual onset asynchronies 4098.
- sound localization, early experience effects on, *Tyto alba* 3082.
- sound localization, predatory behavior, *Tyto alba* 3081.
- threshold development, juveniles, rats 736.
- visual perception, learning, diving behavior, *Pinnipedia* 2903.

Auditory stimuli,

- analytical techniques, cortex (auditory), midbrain, neurons, *Rana temporaria* 732.
- auditory perception, mating behavior, courtship, *Drosophila mercatorum* 3069.
- auditory perception, neurophysiology, rabbits 3171.
- auditory perception, *Teleostei* 3073.
- background levels, effects on auditory perception 1926.
- brain, neurophysiology, cats 731.
- colliculus, neurophysiology, conditioned response, rats 853.
- conditioned response, cortex (auditory) ablation, rats 3173.
- courtship behavior, effects on hormones, *Streptopelia risoria* 1301.
- CS, appetitive conditioning, learning behavior, rats 3939.
- effects on cortex electropotential, ontogeny, man 1927.
- environmental effects, neonates, thyroxine, audiogenic seizures, mice 1923.
- imprinting, tonic immobility, juveniles, chickens 2242.
- interaction, tactile penetration, tongue, man 4124.
- motor activity, cortex, rats 855.
- orientation, *Gryllus bimaculatus* 3068.
- prey orientation, predatory behavior, *Polinices incci* 1407.
- reactivity, emotional behavior, learning behavior, brain monoamines, rats 2223.
- reinforcement schedules, multiple schedule, pigeons 1758.
- response, laterality effects, tones, reaction time task, ear 730.
- role, mating behavior, deserts, *Drosophila* 1267.
- sensitization, avoidance learning, rats 3970.
- ultrasounds, habituation, rats 1920.
- unconditioned response, ontogeny, chickens 2910.
- visual stimuli, contingency, man 1713.

Auditory threshold,

- pentobarbital effects on, *Papio* 2171.

Australopithecus,

- locomotion, walking, evolution 3854.

Austroestes colesonis,

- thermoregulatory behavior, body temperature, New Zealand 2815.

Autecology,

- osmoregulation, habitat preferences, *Kionostemon bauii* 460.
- tropical environment, rain forests, *Primates*, *Malaysia*, books 3371.

Automaintenance,

- duration, response, pigeons 1668.

Automated methods,

- behavior, observation methods 3334.

Autonomic ganglia,

- effects on drinking behavior, rats 905.

Autoshaping,

- avoidance learning, microwave radiation effects on, *Coturnix coturnix japonica* 2950.
- blocking, interstimulus interval, pigeons 3920.
- blocking, pigeons 1656.
- brain stimulation, neuroleptics effects on, rats 956.
- choice, operant response, pigeons 3915.
- classical conditioning, conditioned inhibition, transfer learning, pigeons 2931.
- classical conditioning, CS, reinforcement, extinction, recovery, pigeons 537.
- conditioned inhibition, pigeons 564.
- conditioned suppression, time allocation, rats 1689.
- consummatory behavior, learned response, operant response, pecking behavior, stimulus control, pigeons 1647.

Autoshaping, (continued)

- CS, pairing, *Streptopelia risoria* 535.
- discrimination learning, reinforcement, signals, food, pigeons 1655.
- metaknowledge, pigeons 3906.
- multiple schedule, extinction, behavioral contrast, pigeons 3911.
- omission contingency, learning behavior, tracking, rats 1706.
- omission training, appetitive conditioning, rats 1681.
- orienting response, reviews 3900.
- reinforcement magnitude, effects on, UCS, CS, pigeons 3905.
- reinforcement, pretraining effects, pigeons 1651.
- reinforcement schedules, pigeons 2934.
- reinforcement schedules, pigeons 2935.
- reinforcement schedules, signals, pigeons 2930.
- reinforcement, withdrawal, novelty stimuli, reinstatement, pigeons 3894.
- response, duration, auto-maintenance, pigeons 1668.
- stimulus control, operant conditioning, classical conditioning, pigeons 3921.
- trace conditioning, interstimulus interval, response acquisition, pigeons 1659.
- vision, psychophysics, pigeons 1657.

Avahi laniger,

- territorial behavior, food availability, competition 92.

Aversion,

- conditioning, instruments, measuring techniques, cats 2199.
- conspecific stress secretions, *Lehmannia valentina* 1529.
- lithium chloride, diets, feeding behavior, *Canis latrans* 391.
- shock, learned helplessness, runway learning, mice 1754.
- UCS, drug effects, scopolamine hydrobromide, rats 2151.

Aversion learning,

- appetitive conditioning, hippocampus waves activity, cats 869.
- cardiac conditioning, blood flow, dogs 1766.
- classical conditioning, shock signals preferences 557.
- conditioned defensive burying, behavioral paradigms, drug effects, diazepam, rats 2160.
- CS freezing, shock, rats 566.
- cues, light, saccharin, shock, avoidance behavior, associative learning, rats 1749.
- defensive behavior, burying behavior, rats, mice, guinea-pigs, hamsters 3975.
- effects on circadian rhythms, homing behavior, rats 1941.
- food aversion, rats 581.
- heart rate, habituation, adults, neonates, cats 3968.
- hypertension, heart rate, rats 1792.
- interocular transfer, CS, *Columba* 717.
- intracranial self-stimulation, central gray, mice 2054.
- memory, conditioning, reactivation, rats 614.
- morphine, rats 1743.
- predation, lithium chloride, *Canis latrans* 1732.
- self-punitive behavior, man 1769.
- shock reinforcement schedule preferences, rats 3967.
- transfer learning, classical conditioning, conditioned excitation, conditioned inhibition, dogs 1752.
- visual discrimination, food selection, conditioning, pretraining, rats 1780.
- visual stimuli, food, toxicosis, rats 1751.

Aversive brain stimulation,

- reticular formation, effects on latent inhibition, rats 2055.

Aversive stimuli,

- burying behavior, defensive behavior, rats 3833.
- burying behavior, defensive behavior, rats 3834.

Aves,

- aquatic animals, migrations, geographical distribution, Beaufort Sea, USA, Alaska 1849.
- auditory communication, sound production, vocalization behavior, biology, reviews 3407.
- cerebral dominance, asymmetry, early experience 3132.
- colonies, feeding behavior, intraspecific relationships, communication 1166.
- competition, feeding behavior, food availability, guilds, USA, Arizona 363.
- distress vocalization behavior, ecological distribution 2291.
- eye coloration, visual communication 3409.
- fall migrations, orientation, Canada 4050.
- feeding behavior, aggressive behavior, opportunistic scavenging, coastal zone 2728.
- feeding behavior, food preferences, Anolis, Grenada 351.
- feeding behavior, foraging behavior, *Olea europaea* orchards 2731.
- feeding behavior, seeds 1477.
- foraging behavior, flocking behavior, food availability 1470.
- foraging behavior, parental behavior, energetics, optimization 1479.
- habitat preferences, nest building, urban environment 174.
- incubation behavior, brood care, survival 202.
- interspecific relationships, feeding behavior, *Hydrochoerus hydrochaeris* 2601.
- marine fauna, feeding behavior, species composition, food composition, environmental factors, Irish Sea 365.
- marine organisms, behavior, books 3373.
- migrations, flight activity, altitude 658.
- migrations, flight activity, Caspian Sea 4053.
- migrations, navigation behavior, radar 3020.
- migrations, night, orientation 3019.
- migrations, surveys, seasonal variations, USA, Alaska, Shemya I 656.
- mother-offspring interactions, prenatal experience effects on 198.
- motor skill learning, vocalization behavior, brain 833.
- nesting behavior, monitoring methodology, electronic equipment 2198.
- orientation, feeding, perception, aquatic environment 4054.
- overwintering behavior, agricultural land, abundance 473.
- pest control, taste aversion, crop fields, 3,5-dimethyl-4-(methylthio) phenol methylcarbamate 4445.
- population density, counting methods, instruments 1088.
- raptors, dimorphism, social behavior 3619.
- social behavior, breeding, evolution 2556.
- vision, behavior analysis methodology, goggles 4426.
- visual evoked response, visual discrimination, feeding behavior, juveniles 3056.

Avoidance behavior,

- activity patterns, glycinrhiz effects on, rats 3238.

Amphetamine effects on,

- mice 2084.

Amphetamine,

- syndocarb, 5-hydroxytryptophan, rats 4382.

Anatomy, correlation,

- hippocampus, neurons, genetic relationship, mice, rats 802.

Anti-predator behavior,

- aggregation behavior, *Halobates robustus* 3781.

Brain lesions effects on,

- genetic factors, mice 881.

Cholecystokinin antisera,

- intracranial chemical stimulation, ventricles (cerebral), effects on, rats 579.

Avoidance behavior, (continued)

- chromium effects on, diets, *Anas rubripes* 2949
 circadian rhythms, phase shift effects on, benzodiazepine, mice 3103
 cleptoparasitism, interspecific relationships, *Anas americana*, *Anas strepera*, *Fulica americana* 2850
 conditioned defensive burying, behavioral paradigms, drug effects, diazepam, rats 2160
 conditioned response, drug effects, tetrahydrocannabinol, *Rattus rattus* 965
 conditioned response, neurophysiology, hypothalamus, rats 3160
 conditioning, drugs, apomorphine, memory, amnesia, rats 981
 defensive behavior, burying behavior, piling behavior, shock, rats, hamsters 1733
 defensive behavior, burying behavior, shock, rats 1746
 defensive behavior, burying, shock, preexposure, rats 1728
 delay, signals, extinction, response prevention, rats 1738
 drug effects, auditory perception, *Rattus rattus* 966
 drug effects, δ -glutamine, amnesia, epilepsy, juveniles, chickens 2077
 drug effects, diazepam, learning behavior, memory, age effects, rats 972
 equipment, measuring techniques, *Corophium volutator* 430
 escape behavior, hypertension, rats 1957
 escape behavior, reflexes 1591
 escape learning, maze learning, alcohol, prenatal experience, rats 574
 extinction, adrenal gland steroids, antagonism, rats 3313
 extinction, shock, response competition, rats 3898
 fixed interval schedule, feedback stimuli, rats 584
 heat, *Cicindela ocellata* recutator, USA, Texas 3900
 heavy metals, pollution levels, *Salmo gairdneri* 3785
 hydrocarbons, migrations, *Oncorhynchus* 2824
 interspecific relationships, horses, *Tabulae* 2208
 latency, intracranial chemical stimulation, cholecystikinin octapeptide, rats 930
 learned inactivity, escape learning, shock, proactive interference, rats 1735
 lithium chloride, predation, aversion learning, *Canis latrans* 1732
 locomotor activity, drug effects, clonidine, lesions, raphe nuclei, rats 970
 locomotor activity, predator-prey interactions, *Halobates robustus* 1555
 Mammalia, insecta neurotransmitters effects on 836
 man effects on, observation methods, *Pisces* 2832
 mating behavior, inbreeding, *Meriones unguiculatus* 2497
 malnutrition, malnutrition, neonates, stress, cold stress, rats 575
 medial forebrain bundle lesions, neurotoxins, foot shock sensitivity, 5-hydroxytryptamine depletion, rats 884
 α -melanocyte stimulating hormone, cerebrospinal fluid, blood, rats 4414
 memory, drug effects, orotic acid, chemical stimuli, rats 974
 mice, chloridazepoxide effects on, antidepressants 2080
Microtus pennsylvanicus anti-predator behavior, *Blarina brevicauda* odors 2858
 motor activity, stress, rats 2239
 movements, motor vehicles effects on, *Rangifer tarandus* 491
 neurons physiology, *Carcinus maenas* 815
 neurophysiology, EEG, hippocampus, rats 2003
 novelty, *Alecton chrysurus*, *Chrysocolaptes pictus*, *Phasianus colchicus* 2205
 novelty, amygdala lesions effects on, mice 4240
 ontogeny, behavioral genetics, rats 2913
 ontogeny, punishment, reinforcement, rat, chickens 1720
 open-field behavior, melanotropin fragments effects on, rats 4363
 pain perception, capsaicin effects on, rats 4356
 paraoxon, isofluoride effects on, rats 3246
 pests feeding, effects on grazing, cattle, *Musca autumnalis* 4453
 picrotoxin effects on, rats 4352
 polyurethane decomposition effects on, rats 3250
 polyurethane, polyimide effects on, rats 2098
 predation, environmental conditions, *Odonata* 454
 predation, motor vehicles, *Anas platyrhynchos* 2851
 predation, *Trochidae* 53
 predators, *Araneidae*, *Uloboridae* 3789
 predators, foraging behavior, flocking behavior, *Passer domesticus* 2837
 predators, prey, *Falco*, *Heligale undulata* rufula, *Tockus* 3766
 predators, secretions, *Neophthalmus viridescens*, *Dytiscus verticatus* 1716
 reflexes, purines effects on, rats 1982
 response, electrolocation, nervous system analysis, *Eigenmannia* 1596
 response, rats 1755
 retention, α -endorphin, γ -endorphin, rats 3155
 scopalamine effects on, age, rats 4347
 shock, associative learning, cues, light, saccharin, aversion learning, rats 1749
 shock, operant conditioning, reinforcement, rats 1680
 shock, reinforcement, temporal perception, rats 1741
 social interactions, *Clethrionomys glareolus* 2587
 stress, chemical communication, conspecifics, *Ambystoma tigrinum* 2282
 taste aversion learning, drug effects, rats 3281
 temperature preferences, acclimation, *Oncometis obscurus* 2769
 toxins, cues, sampling, duration, rats 1739
 toxins, pest control, *Rattus rattus* 2213
 visual stimuli, *Mictyris platycheilus* 560
 weaning, pituitary adrenal gland, hormone release, juveniles, pigs 1348
 wheel running, social interactions, rats 565

Avoidance learning

- acetylcholine, choline, levels, biosynthesis, hippocampus, striate cortex, rats 4179
 age effects, hypertension, rats 1745
 alcohol effects on, intrauterine exposure, rats 3279
 alcohol intrauterine exposure effects on, rats 4297
 aluminum, parathyroid effects on, rats 4295
 amnesia, β -adrenergic antagonists, juveniles, chickens 1979
 amnesia, enkephalin effects on, rats 1013
 atmospheric conditions, ionization, rats 567
 brain development, mice 1760
 caffeine effects on, prenatal experience, mice 1604
 chemical communication, interspecific relationships, *Gonodactylus bredini*, *Otocryptus jouleini* 425
 chemophenical effects on, intrauterine exposure, rats 3230
 p-chloroamphetamine effects on, rats 4389
 chlorpromazine effects on, rats 3235
 conditioned response, hippocampus, neurophysiology, rabbits 572
 conditioned response, latency, rats 1731
 defensive behavior, rats, gerbils 1200
 discrimination learning, acquisition, extinction, *Carassius auratus* 3990

Avoidance learning, (continued)

- discrimination learning, reversal learning, shock, cues, color, *Carassius auratus* 2948
 dopamine effects on 931
 dopamine metabolism, striate cortex, substantia nigra, rats 4214
 drug effects, cycloheximide, puromycin, *Periplaneta americana* 2075
 drug effects, monkeys 3304
 drug effects, rats 2105
 drug effects, rats 3272
 drug effects, 8-hydroxydopamine, latency, catecholamines, rats 1734
 β -endorphin, naloxone effects on, rats 787
 enkephalins effects on, opiates receptors role, rats 3165
 escape behavior, habituation, pain, rats 3976
 escape behavior, performance, schedule effects on, rats 1723
 extinction, cortex (prefrontal) lesions effects on, rats 3193
 extinction, flooding, rats 1634
 fear conditioning effects on, rats 582
 fear conditioning, UCS, shock, adaptations, rats 569
 flooding, rats 3971
 habituation, olfactory stimuli effects on, rats 1919
 hippocampus, neurons depletion, rats 3151
 inhibition, protein biosynthesis, short term memory, mice 1828
 lead effects on, juveniles, rats 3228
 lead nitrate effects on, intrauterine exposure, rats 4324
 learned helplessness, depression, rats 1729
 locomotor activity, learning behavior, *Carcinus maenas* 559
 malnutrition effects on, rats 1603
 memory, age effects, mice 1821
 memory, age effects on, mice 2980
 memory, catecholamines effects on, rats 2989
 memory, correlation, S-100 protein, nutrient deficiency, rats 4158
 memory, hypothermia effects on, rats 1820
 memory, oxytocin analogues effects on, rats 3164
 memory, strychnine sulfate effects on, rats 1819
 memory, veratridine, effects on 1816
 methylmercury effects on, intrauterine exposure, rats 1612
 microwave radiation effects on, *Coturnix coturnix japonica* 2950
 mutants, *Drosophila melanogaster* 561
 noradrenaline neurons role, rats 1990
 nutrient deficiency, thiamine, folic acid, pharmacology, rats 573
 ontogeny, rats 1618
 open-field behavior, genotype-environment interactions, mice 2887
 operant conditioning, leg lowering, spinal rats 3974
 passive avoidance, operant conditioning, fighting, shock, *Bufo* sp., *Ranidae* 718
 PCB, intrauterine exposure, effects on, mice 3260
 performance, amnesia, circadian rhythms phase shift effects on, rats 615
 performance, dopamine receptors sensitivity effects on, rats 978
 performance, genetic factors, neurons anatomy, mice 1587
 performance, reinforcement schedule 3955
 phosphatidyl choline effects on, diets, mice 3120
 preference-for-signal-shock, rats 3978
 pretraining, testosterone, short term memory, juveniles, chickens 1722
 psychotropic drugs effects on, dogs 2096
 X-radiation intrauterine exposure effects on, rats 1613
 reinforcement schedules, hippocampus development, juveniles, rats 1730
 reinforcement schedules, rats 3985
 retention, *Helix pomatia* 2983
 retention, Kamun effect, rats 3969
 scopalamine, noradrenaline, locus coeruleus, ablation, rats 571
 sensitivity stimuli, *Rodentia* 1742
 sensitization, auditory stimuli, rats 3970
 septum lesions, rearing isolation, rats 580
 shock, activity patterns, rats 3972
 shock intensity, schedule, 583
 shock signals, preferences 558
 spinal cord nerves ablation effects on, rats 798
 stimulus control, blocking, pigeons 2932
 taste aversion conditioning, *Macaca fasciata* 2958
 taste aversion learning, preexposure, novelty, rats 1768
 taste aversion, neophobia, rats, guinea-pigs, gerbils 3961
 taste aversion, toxins, guinea-pigs 1737
 taste, sound, shock, associative learning, cues, rats 1750
 tegmentum connections lesions effects on, rats 2024
 temperature effects on, mice 3973
 thyroibern effects on, rats 4413
 tributyltin methacrylic-carbon monooxymethylmethacrylate ester effects on, rats 4308
 triphenyltin intrauterine exposure effects on, rats 4307
 zinc phosphide, toxicity, *Musclea eversmanni* 3963
- Axons,**
 neurophysiology, coordination, motor activity, behavior patterns *Homarus americanus* 3135
- Aythya affinis,**
 nests, parasitism, egg laying, *Aythya americana*, Canada, Alberta 1299.
- Aythya americana,**
 egg laying, nests parasitism, drought effects on, interspecific relationships, Canada, Alberta 1299.
- Aythya valisineria,**
 movements, methodology, radio-tagging, aberrant behavior 4425.
- Azaperone,**
 effects on aggression, weaning pigs 2217
- Babesia bovis,**
 parasites, effects on, oviposition, fecundity, hosts, *Boophilus microplus* 1245.
- Baboons,**
 drug self-administration, equipment 1097
 taste preferences, taste perception, nechespidin dihydrochalcone, electrophysiological recording 4093.
- Babyrousa bebrussa,**
 males, aggressive behavior, functional morphology, teeth 67.
- Bacillariophyceae,**
 food organisms, chemical stimuli, feeding behavior, *Uca pugnator* 267.

- Bacillus subtilis**,
chemotaxis, chemical stimuli, swimming behavior 4032.
- Background levels**,
auditory stimuli, effects on auditory perception 1926.
- Backward conditioning**,
defensive behavior, burying behavior, rats 3932.
- Bacopa monniera**,
plant extracts, effects on learning behavior, rats 2971
- Bacteria**,
effects on oviposition stimulation, *Hylemya antiqua* 129.
food organisms, chemical stimuli, feeding behavior, *Uca pugnator* 267.
food organisms, food preferences, *Harpacticoida* 3660.
magnetic fields, taxis, orientation 2992.
- Bait shyness**,
lithium chloride, diets, feeding behavior, *Canis latrans* 391.
- Balaena mysticetus**,
auditory communication, sound production, vocalization behavior 2309.
feeding behavior, diets, food sources, USA, Alaska Coast 2759.
migrations, annual cycles, Beaufort Sea 3025.
migrations, annual cycles, USA, Alaska, Cape Lisburne 3026.
migrations, display, play, feeding behavior, USA, Alaska Coast 3024
- Balaeniceps rex**,
feeding behavior, predatory behavior 2705.
- Balance**,
tails length, locomotor activity, *Saimiri* 699.
- Balanus glandula**,
aggregation, breeding, fertilization 82.
anti-predator behavior, cirral withdrawal 2773.
- Balistes fuscus**,
thermoregulatory behavior, temperature tolerance, Indo-Pacific region 1562.
- Balistes vidua**,
thermoregulatory behavior, temperature tolerance, Indo-Pacific region 1562.
- Barbiturates**,
drug effects, taste aversion, *Rattus rattus* 962.
- Barriers**,
crop protection, light effects, colonization, behavior, *Myzus persicae* 1410.
- Baryptibengus martii**,
feeding behavior, seeds 1477.
- Basal ganglia**,
lesions, effects on locomotor activity, pigeons 880.
- Batocera lineolata**,
mating behavior, activity patterns, dispersal, feeding behavior 1593.
mating behavior, oviposition, Japan, Tokyo 2408.
- Behavior**,
Asiaticus, phenology, seeds, *Trifolium repens* 1544.
attachment, Colapic 673.
cholesterol serum levels, sex differences, *Cercopithecus aethiops* 808.
colonization, immigration, light effects, crop protection barriers, *Myzus persicae* 1410.
conservation, Primates, Thailand 496.
drift behavior, activity patterns, substrate preferences, *Peromyscus*, *Microtus*,
Mus, *Onychomys*, *Rhodomys* 1573.
drug effects, amphetamine, intracranial self-stimulation, reinforcement
asymmetry, rats 973.
ecology, endocrine system, *Anolis carolinensis* 459.
ecology, theories, recognition, orientation, visual discrimination learning 419.
effects on distribution, *Octopus vulgaris*, Atlantic Ocean 81.
effects on speciation, *Drosophila heteroneura*, *Drosophila silvestris* 446.
emergence, environmental conditions, oxygen depletion, *Lipophrys pholis*, *Taurulus*
bulbis, *Ciliata mustella* 468.
environmental effects, lead, ontogeny, striatal dopamine neurons, rats 1624.
evolution 3840.
function, noradrenaline, central nervous system, theories, reviews 1974
hosts, parasitoids effects on, survival, *Euphydryas phaeton* 451.
larvae, *Copis lunaris* 1289.
lesions, cortex (prefrontal), age effects, rats 2035.
maintenance, operant response, drug effects, cocaine, ketamine 1023.
measurements, methodology, *Entamoeba histolytica* 1083.
methadone effects on, intrauterine exposure, rats 1606.
3,4-methylenedioxymphetamine, 2,4,5-trimethoxymphetamine,
N,N-dimethyltryptamine, psilocybin effects on, monkeys 1022.
modeling, measurements, reinforcement, fixed interval schedules, pigeons 536.
molt, neurophysiology, abdomen, rhythms, *Schistocerca* 1934.
motor activity, visual perception, ethology, niche position, *Rodentia* 1568.
orientation, chemical stimuli, disease transmission, *Schistosoma mansoni*,
Biomphalaria 626.
osmoregulation, sodium chloride, ablation, amygdala, hypothalamus, rats 794.
pharmacology, reviews 4417.
pheromones olfactory perception effects on, strains, *Trogoderma granarium* 23.
pheromones response, threshold limits, males, *Grapholitha molesta* 15.
Pisces 463.
repertoire, description, *Cercopithecus albigena johnstoni* 3870.
retina, circadian rhythms, light effects, *Cichlasoma citrinellum* 755.
role, speciation, evolution, isolation, *Spalax ehrenbergi* 509.
sensitization, neurotransmitters, intracranial chemical stimulation,
5-hydroxytryptophan, rats 792.
short-term, peptides pituitary effects on, mice 1038.
site selection, spawning, littoral zone, mortality, air, exposure, *Fucus*
distichus, *Clinocottus acuticeps*, Canada, British Columbia Coast 155.
temperature preferences, *Enneacanthus gloriosus* 464.
tropical environment, rain forests, Primates, Malaysia, books 3371.
- Behavior assessment**,
methodology, infants 4441.
- Behavior modification**,
learning behavior, drug effects, pyromycin, *Helix pomatia* 528.
punishment, climbing, cats 578.
- Behavior therapy**,
aberrant behavior, age, dogs, cats 4455.
aggressive behavior, dogs 4458.
- Behavioral contrast**,
appetitive conditioning, reinforcement, rats 3933.
appetitive conditioning, reinforcement, rats 3934.
multiple schedule, extinction, autoshaping, pigeons 3911.
operant conditioning, frustration theory, *Rattus rattus* 1105.
operant conditioning, licking behavior, rats 1678.
reinforcement, chain schedule 3899.
- Behavioral contrast, (continued)**
reinforcement, dopaminergic mediation, rats 3156.
reinforcement magnitude, variable interval schedule, pigeons 539.
reinforcement, ontogeny, successive negative contrast, juveniles, rats 2922.
response, reinforcement schedules, food, variable interval schedule, pigeons
1661.
septum lesions, punishment, suppression, rats 887.
trials, variable interval schedule, discrimination learning, rats 4006.
- Behavioral genetics**,
agonistic behavior, maternal effects, *Salvelinus fontinalis*, *Salvelinus namaycush*
2882.
altruism, kin selection 2874.
altruism, polygenic inheritance, natural selection, models 3841.
feeding behavior, water intake, food intake regulation, *Gallus gallus* 361.
kin selection, altruism, *Coleoptera* 3845.
mate selection, *Drosophila* 2439.
migrations, reproduction, mathematical models 1060.
natural selection, altruism, mathematical models 1063.
natural selection, speciation, reproductive behavior, isolation, mathematical
models 1064.
ontogeny, avoidance behavior, open-field behavior, rats 2913.
reviews, dogs 1585.
schooling behavior, genotypes, community composition, heterogeneity, *Notropis*
coronatus 1583.
sex hormones, stress, tonic immobility, age effects, *Sylvilagus floridanus* 788.
sleep and wakefulness, strains, mice 4142.
social behavior, evolution, selection 2873.
social behavior, sexual behavior, dominance, males, cattle 182.
- Behavioral responses**,
color, discrimination learning, *Eledone cirrhosa*, *Octopus vulgaris*, *Eledone*
moschata 3.
- Behavioral teratology**,
drug effects, conferences 3375.
- Bembix inyoensis**,
colonial characteristics, life history, nesting behavior 2519.
- Bembix pruinosa**,
nesting behavior, site selection, social interactions 3791.
nesting behavior, spatial distribution, intraspecific relationships 2795.
- Benactazine**,
anticholinergic compounds, effects on schedule-induced behavior, *Macaca mulatta*
4388.
- Benjaminia euphydrydis**,
parasitoids, host searching behavior, hosts defense mechanisms, *Euphydryas*
phaeton 2800.
- Benserazide**,
drug effects, locomotor activity, chronic exposure, neurotransmitters, L-DOPA,
mice 791.
- Bentheogemema**,
vertical distribution, diel variations, feeding behavior, Gulf of Mexico 1404.
- Benthos**,
drift, composition, environmental effects, Australia, A.C.T., Condor Creek 433.
- Benzene**,
effects on stereotyped behavior, mice 3254.
neurophysiology, motor activity, toxicity testing, rats 859.
- Benzodiazepine**,
antagonists, Ro 15-1788, effects on discrimination learning, diazepam,
pentobarbitone, rats 4359.
drugs, fighting, shock, mice 77.
effects on avoidance behavior, circadian rhythms, mice 3103.
effects on food preferences, γ -aminobutyric acid role, rats 3292.
- Benzodiazepines**,
drug effects, conditioned response 2067.
drug effects, grooming, intracranial chemical stimulation, adrenocorticotrophic
hormone, β -endorphin, mice 2135.
- Benzodiazepines receptors**,
neurophysiology, central nervous system, emotional behavior, rats 4209.
- Betta splendens**,
aggressive behavior, predation, visual stimuli effects on 61.
aggressive behavior, visual stimuli, conspecifics 2323.
maze learning, cognition 3989.
nesting behavior, aggressive behavior, males 1194.
reproductive behavior, parental behavior, agonistic behavior, males 3530.
- Bibliographies**,
domestic animals, behavior 4460.
ethology, behavior development, Primates, books 4493.
sleep 3108.
- Bicuculline**,
drug effects, learned helplessness, depression, gamma-aminobutyric acid 1950.
- Blinding**,
testosterone, central nervous system, social interactions, aggression, dominance,
mice 1045.
- Bioacoustics**,
echolocation, noise, *Tursiops truncatus* 3085.
sexual behavior, sexual maturity, *Pseudohylesinus nebulosus* 1270.
song, effects on females copulation posture, *Molothrus ater ater* 1163.
swim bladder, *Rutilus rutilus* 734.
- Bioassays**,
pheromones response, males, *Dioryctria amatella* 115.
sensitivity, pheromones, *Solenopsis invicta* 27.
- Biochemical analysis**,
pheromones, mandibular glands, *Myrmica* 2270.
sex pheromone, courtship role, diets, *Utetheisa ornatrix* 1152.
- Biochemical characteristics**,
brain, malnutrition, neonates, stress, cold stress, rats 575.
diets, *Colobus angolensis* 2768.
neurotransmitters, catecholamine, serotonin, metabolism, delayed response, cats
866.
- Biochemical transfer**,
mRNA, discrimination learning, rats 4166.
- Biochemistry**,
aggressive behavior, epidermal growth factor, renin, mice 3124.
blood, 5-hydroxytryptamine, tryptophan, social behavior, *Ceropithecus aethiops*
sabaeus 807.
imprinting, hyperstriatum, chickens 835.
neurophysiology, learning behavior, memory 3115.

- Biological control**, interspecific relationships, competition, pest control, 439
- Biology**,
 auditory communication, sound production, vocalization behavior, reviews, Aves 3407
Litodactylus leucogaster, feeding behavior, geographical distribution, laboratories 1420
 nesting behavior, nest building, *Tanyoprymnus moneduloides*, *Ammatomo icarioides* 1247
 nesting behavior, territorial behavior, males, *Oxybelus sericeus* 1543
 social organization, evolution, reviews 3853
- Biotumescence**,
 attraction, aquatic organisms 3049
 courtship, visual communication, neurophysiology, *Photinus lucifescens* 2274
 lunar rhythm, spawning behavior, *Odonotyllus enopla* 703
 mating behavior, *Eledoneella pygmaea*, *Apeltes diaphana* 2252
 nursery, interspecific relationships, predation, *Photinus* 28
 physiology, nervous system, *Chaetopterus* 813
- Biomass**,
 food organisms, food preferences, feeding behavior, age effects, *Tyto alba* 374
 food organisms, host plants predation effects on, *Misumena vatia* 273
- Biomechanics**,
 feedback, heart rate, learning behavior, rabbits 762
- Biometrics**,
 statistical analysis 2189
 statistical analysis, methodology 2192
- Biophthalmia**,
 disease transmission, orientation behavior, chemical stimuli, *Schistosoma mansoni* 626
- Bioters longicaudatus**,
 parasites, population density, oviposition, host selection, competition 1545
- Bioethythesis**,
 brain, catecholamine, chronic exposure, apomorphine, effects on, rats 849
 sex pheromone, mating effects on, host plants aggregation, *Ips paraconfusus* 1149
- Birds**,
 locomotion, energetics, energy conservation, feeding behavior 372
- Birth**,
 temporal variations, social rank, breeding success, *Macaca mulatta* 3484
- Bison bison**,
 mating behavior, copulation 3563
- Bison bonasus**,
 aggressive behavior, feeding, Czechoslovakia 3447
- Biting behavior**,
 mediation, hypothalamic neurons, rats 4197
- Bliss**,
 chemoreception, tongue flicking behavior 4104
- Bitterness**,
 gustatory stimuli, nerves response, adaptations, tongue, frogs 829
- Blattella brevicornis**,
 odors, avoidance behavior, *Microtus pennsylvanicus* anti-predator behavior 2858
 predators, food organisms palatability, anti-predator behavior, *Hyla versicolor* 2821
- Blatta orientalis**,
 activity patterns, circadian rhythms, environmental effects 4134
- Blattella germanica**,
 aggregation pheromone, dispersion pheromones, effects on larvae, intraspecific relationships 26
 mating behavior, sense organs effects on 1275
- Bleda eximia**,
 sympatric populations, competition, foraging behavior, resource partitioning 2687
- Blepharisma**,
 chemoreception, sexual reproduction, Somali Dem. Rep. 1235
- Blocking**,
 autoshaping, interstimulus interval, pigeons 3920
 autoshaping, pigeons 1656
 classical conditioning, rats 3937
 CS compound, go/no-go discrimination learning, rats 1686
 DRO schedule, rats 2944
 frustration, running, rats 1104
 go/no-go discrimination learning, stimulus control, rats 4003
 neurons, chemoreceptors, propanolol, effects on, sleep (paradoxical), rats 771
 operant conditioning, conditioned reinforcement, rats 3944
 stimulus control, discrimination learning, avoidance learning, appetitive conditioning, pigeons 2932
 stimulus control, rats 1643
 taste aversion learning, UCS preexposure, rats 3957
 trace conditioning, rats 3949
- Blood**,
 biochemistry, 5-hydroxytryptamine, tryptophan, social behavior, *Ceropithecus aethiops sabaeus* 807
- Blood circulation**,
 intrauterine exposure, effects on cardiac conditioning, dogs 1619
- Blood flow**,
 cardiac conditioning, aversion learning, dogs 1766
- Blood levels**,
 androgen, sexual behavior, courtship, odor, urination, *Rangifer tarandus* 190
- Blood meals**,
 feeding behavior, 15 families, Diptera, Sweden 2637
 host searching behavior, vitellogenesis effects on, *Aedes aegypti* 1440
- Blood pressure**,
 cardiac conditioning, operant conditioning, Papio 1712
 classical conditioning, heart rate, monkeys 2946
 heart rate, aversion learning, rats 1792
 operant response association, Samiri 4216
 self-assessment, training, methodology, operant conditioning, *Papio cynocephalus* 1098
- Blood vessels**,
 mechanoreceptors, brain, effects on locomotor activity, rats 1985
- Body fat**,
 reserves, energy requirements, feeding behavior, winter, *Lagopus mutus rupestris* 371
- Body odors**,
 production, reinforcement, alternation learning, discrimination learning 3903
- Body size**,
 activity patterns, *Crangon crangon* 2775
- Body size, (continued)**
 aggressive behavior, intraspecific relationships, *Phymactis clematis*, Chile Coast 54
 competition, intraspecific relationships, zonation, *Litorina unifasciata* 1527
 discrimination, male selection, courtship, *Peris prolixus* 2397
 dominance, competition, food availability, *Italus nebulosus* 2373
 effects on
 effects on, copulation, breeding success, strains 1277
 effects on flight activity, *Anisoptera* 1870
 effects on predation, *Paropus herbui*, *Mercenaria mercenaria* 261
 female, effects on, nest building, oviposition, *Dendrocorus frontalis* 1263
 food organisms, food preferences, larvae, *Clupea harengus* 3700
 food preferences, predation, feeding behavior, *Neomysis mercedis* 1394
 male selection, breeding success, *Tetraodon tetrastichus* 2398
 male selection, mating behavior, *Hyla versicolor*, *Hyla crucifer* 2445
 male selection, sexual selection, *Brenus anchorage* 2421
 mating behavior, breeding success, sexual selection, *Bufo americanus* 2443
 social behavior, mother-offspring interactions, sexual dimorphism, *Macropus robustus*, Australia 245
 territorial behavior, copulation burrows, males, *Ocyrops ceratophthalmus* 2383
- Body temperature**,
 hibernation, hypothalamus electrical stimulation effects on, self-stimulation, *Citellus tridecemlineatus* 923
 temperature effects, morphine, norepinephrine, food intake, rats 1001
 thermoregulation effects on self-stimulation, salicylate, rats 2046
 thermoregulation, gerbils 1590
 thermoregulatory behavior, *Euphydryas aurina* 2816
 thermoregulatory behavior, *Leptodactylus decemlineatus* 2804
 thermoregulatory behavior, orientation, sunlight, *Gynaephora rossii* 2808
 thermoregulatory behavior, *Serpentes* 2822
- Body weight**,
 activity patterns, diurnal variations, *Crocodylus* 494
 cholecystokinin, bombesin, food intake regulation, rats 3741
 drug self-administration, cocaine, fixed interval schedule, rats 2121
 effects on homosexual behavior, males, *Palmacon nana* 1239
 feeding behavior, food availability deprivation, rats 3742
 feeding behavior, food intake, lesions, hypothalamus, estrogens, rats 900
 feeding behavior, mouthparts, food intake, chickens 3341
 food consumption, crowding effects on, cages, *Collins virgatus* 1482
 food intake, haloperidol effects on, rats 2087
 food intake, lesions, hypothalamus (dorsomedial), effects on, rats 891
 food intake, regulation, insulin 3653
 grazing, sheep 414
 overwintering, migrations, *Sylvia atricapilla*, Tunisia 4052
 sex differences, effects social rank, *Odocoileus virginianus borealis* 95
- Bohadschia marmorata**,
 spawning behavior, night, Palau Is. Coast 3487
- Bombesin**,
 drug effects, thermoregulation, operant response, rats 945
 effects on avoidance behavior, rats 4191
 food intake regulation, rats 3741
 intracranial chemical stimulation, hypothalamus, effects on food intake, rats 4174
- Bombus**,
 food organisms, predation, *Misumena vatia* 273
 foraging behavior, pollinators, *Digitalis purpurea* 2648
 foraging behavior, seasonal variations, interspecific relationships, intraspecific relationships, castes 2639
- Bombus appositus**,
 feeding behavior, optimization 309
 foraging behavior, energy intake optimization 2630
- Bombus bifarius**,
 pollinators, foraging behavior, plasticity 2653
- Bombus edwardsi**,
 foraging behavior, continuous reinforcement, flowers 1644
- Bombus flavifrons**,
 foraging behavior, energy intake optimization 2630
 pollinators, foraging behavior, plasticity 2653
- Bombus hortorum**,
 visual perception, vision physiology 707
- Bombus lapidarius**,
 foraging behavior, food sources, niche pattern 2655
- Bombus sandersoni**,
 foraging behavior, nectar reinforcement effects on 1414
- Bombus terrestris**,
 colonial characteristics, larvae feeding, workers 308
 colonies, social behavior, dominance, castes 2371
 effects on workers egg laying behavior 125
 foraging behavior, food sources, niche pattern 2655
- Bombus terricola**,
 colonial characteristics, larvae feeding, workers 308
- Bombus vassanensis**,
 chemical communication, scent marking behavior, flowers, foraging behavior 1133
- Bombyx mori**,
 phototaxis suppression, host plants olfactory stimuli effects on 1910
 retinal deficiency effects on phototaxis, photosensitivity 1842
- Bonasa umbellus**,
 drumming, auditory communication, population density 1173
 social behavior, display 2577
- Bonding**,
 mother-offspring interactions, prenatal experience effects on, Aves 198
- Bone biomechanics**,
 hip, thigh, functional morphology, jumping, *Prosimii* 806
- Bones**,
 feeding behavior, *Coprophanaeus telamon* 310
- Books**,
 aggression, man, primates 3374
 auditory communication, visual communication, vocalization behavior, man, Primates 4494
 echolocation, orientation, Mammalia 3772
 emotional behavior, sexual behavior, parental behavior, *Gorilla gorilla* 4492
 ethology 4491
 ethology 4497
 ethology, behavior development, ontogeny, Primates, bibliographies 4493
 ethology, diversity 4495
 ethology, mathematics 4490

- Books, (continued)**
 marine organisms, behavior, Aves 3373
 parental behavior, brood care 4496
 tropical environment, rain forests, autecology, behavior, Primates, Malaysia 3371
- Boophilus microplus**,
 hosts, parasites, *Babesia bovis*, effects on, fecundity, oviposition 1245
- Borera**,
Crossidius pulchellus, feeding behavior, roots, *Gutierrezia sarothrae*,
Gutierrezia microcephala, USA, New Mexico 299
- Bos bubalis**,
 milk production, weather, seasonal variations, emotionality 4452
- Bosmina longirostris**,
 food organisms, abundance, effects on predators feeding behavior, *Lepomis macrochirus* 3690
- Brachlaria ramosa**,
 feeding behavior, *Ostrinia nubilalis*, new records 296
- Brachlaria**,
 protective behavior, defense mechanisms, chemical communication 4
- Brachydonia rodriguezi**,
 locomotion, substrate preferences 670
- Brachymeria intermedia**,
Brachymeria lasus, sex pheromone, males response, age effects 1138
 mating behavior, courtship 1272
- Brachymeria lasus**,
 mating behavior, courtship 1272
 sex pheromone, males response, age effects 1138
- Brachystola magna**,
 thermoregulation, role, thermoregulatory behavior, coloration 1557
- Brachytrupes megalcephalus**,
 sexual reproduction, mating behavior, seasonal variations, physical activity, feeding behavior, Sicily 2782
- Brachytrupes portentosus**,
 burrowing behavior, population density, seasonal variations 2788
- Bradyia impatiens**,
 mating behavior, flight activity, sex pheromone effects on 113
- Brain**,
 ablation, cortex, discrimination learning, tactile perception, neurophysiology 598
 ablation, effects on consummatory behavior regulation, methodology, rats 902
 activity, isolation effects on, *Meriones unguiculatus* 1918
 aggression, neurophysiology, acetylcholine, choline, mice 3162
 aggressive behavior, role, reviews, rats 3462
 amines, effects on conditioned response, unconditioned response, olfactory stimuli 3117
 amines, go/no-go discrimination learning effects on, cats 1991
 amines, stress effects on, rats 3369
 anatomy, correlation, feeding behavior, *Heteropneustes fossilis*, *Chana punctulata*, *Labo robota* 832
 anatomy, magnetic fields perception, pigeons 3083
 anatomy, reproductive behavior, *Macropodus* 1952
 anatomy, sex, seasonal variations, *Serinus cauratus* 2299
 biochemical characteristics, malnutrition, neonates, stress, cold stress, rats 575
 biochemistry, catecholamine, chronic exposure, apomorphine, effects on, rats 849
 blood vessels, melanoreceptors, effects on locomotor activity, rats 1985
 catecholamine, drug effects, L-Dopa, apomorphine, methamphetamine, *Callithrix jacchus* 971
 catecholamines, lead effects on, schedule-induced behavior, pigeons 3225
 catecholamines, open-field behavior, rats 3158
 p-chlorophenylalanine, effects on 5-hydroxytryptamine, aggression, rats 2091
 cortex, models, visual perception, patterns 1074
 desipramine effects on dopamine receptors, locomotor activity, rats 933
 development, avoidance learning, mice 1760
 development, psychotropic drugs effects on, rats 3263
 dopamine levels, exploratory behavior, hybrids, inbreeding, mice 4465
 dopamine transport, cathione effects on, stereotyped behavior, rats 2090
 EEG, neurophysiology, air ionization, sleep, arousal, rats 863
 electrical properties, seasonal variations, *Carassius auratus* 3141
 electrophysiological recording, electrodes, methodology 1081
 enzymatic activity, olfactory bulb ablation, aggressive behavior, drug effects, *scopolamine*, rats 1964
 food consumption inhibition centers, *Labidura riparia* 290
 forebrain, ablation, feeding behavior, learning behavior, *Carassius auratus* 343
 function asymmetry, prenatal experience, light, chickens 3144
 glucose metabolism, corticosterone, grooming, mice 4213
 hippocampus, lesions effects on latent learning, rats 2017
 hippocampus, lesions, locomotor activity, exploratory behavior, drug effects, *kaïnate acid*, pharmacology, rats 901
 6-hydroxydopamine, effects on noradrenergic levels, motor activity, monkeys 3179
 6-hydroxydopamine lesions, effects on stimulants, rats 890
 5-hydroxytryptamine, drug effects, tryptophan, rats 2154
 hypodipsia, lesions, water, intake, rats 402
 hypothalamus, aggressive behavior, neurophysiology, rats 851
 inferior colliculus, destruction, neurophysiology, echolocation, auditory perception, *Rhinolophus ferrumequinum* 669
 lesions, aggressive behavior, gentling, mouse killing, rats 2015
 lesions, effects on avoidance behavior, genetic factors, mice 881
 lesions, effects on discrimination learning, rats 595
 lesions, maze learning, intracranial chemical stimulation, saline water, rats 4271
 lesions, nystagmus, monkeys 726
 lesions, raphe nuclei, serotonin, exploratory behavior, rats 2225
 mast cells abundance, handling effects on, rats 837
 monoamines, methadone effects on, intratracheal exposure, rats 1606
 morphology, biochemical composition, behavior, *Elasmobranchia* 830
 motor activity, metabolic rate, glucose, *Macaca mulatta* 874
 motor activity, neurophysiology, head, lesions, drug effects, rats 1984
 motor activity, vocalization behavior, sex, neurophysiology, *Serinus canarius* 811
 motor skill learning, vocalization behavior, Aves 833
 nerve transmission, cortex, neurophysiology, EEG, arousal, resting behavior, cats 860
 neurochemistry, behavior, reviews 4181
 neurochemistry, food intake, triethyltin effects on, rats 4315
 neurophysiology, electrical stimulation, auditory stimuli, cats 731
- Brain, (continued)**
 neurophysiology, memory, reviews, *Mammalia* 4026
 nucleotides levels, sleep and wakefulness, rats 770
 opioids, copulation, pain perception, rats 3123
 organization, learning effects on, rhesus monkeys 876
 photoreceptors, reviews 4148
 physiology, enzymes, histochemistry, *Epizetetus burgeri* 831
 protein deficiency effects on development, prenatal experience, rats 518
 receptors, opiates, effects on memory, rats 610
 right hemisphere, discrimination learning, recognition, memory, man 617
 size, effects on demography, habitat preferences, life span, *Didelphis* 790
 sleep, inducers, prostaglandins, chickens 925
 stimulation, autoshaping, neuroleptics effects on, rats 956
 structure, emotional behavior 1975
 thermoregulation, heat transfer, hypothalamus, temperature effects, *Colinus virginianus* 781
 weight, environmental conditions, enrichment, early experience, undernutrition, rats 3122
 weight, exploratory behavior, mice 1111
 weight, rearing effects on, rats 3119
- Brain commissures**,
 interocular transfer, visual perception, lesions, corpus callosum, rats 899
- Brain damage**,
 recovery of function, discrimination learning, rats 2038
- Brain stem**,
 lesions, effects on locomotor activity, pigeons 880
 mouth movements, rats 4203
- Branta canadensis**,
 flocking behavior, reproductive behavior, mortality 2839
 parental behavior, brood rearing, dispersion, survival, juveniles 201
 social behavior, hyperphagia, migrations, USA, Minnesota 2571
- Branta canadensis interior**,
 migrations, flight speed 3017
- Branta canadensis maxima**,
 breeding success, parental behavior, social organization 2456
- Brassica campestris**,
 nectar secretion, effects on feeding behavior, *Apis* 303
- Breeding**,
 adults, vocalization behavior, *Seiurus aurocapillus* 40
 annual cycles, sexual reproduction, gonads, photoperiods, *Ploceus philippinus* 169
 colonies, adaptiveness, *Cynomys leucurus*, *Cynomys ludovicianus* 1371
 colonies, mating behavior, sexual selection, *Actitis macularia* 3536
 effects on infanticide suppression, gerbils 1350
 habitat selection, home range, *Anas rubripes* 3534
 habitat utilization, activity patterns, *Anas platyrhynchos* 2895
 home range, *Ficedula hypoleuca* 2843
 husbandry, *Saguinus oedipus oedipus* 1341
 life history, temperature effects, *Caprimulgus europaeus* 175
 mating behavior, copulation, cattle 2499
 mating behavior, males, cattle, sheep, pigs 4449
 mating behavior, *Phoenicurus ochruros* 2475
 movements, radio-tagging, *Chelonia mydas* 4041
 nesting, reproductive behavior, *Anthus pratensis*, Germany, Fed. Rep. 2469
 parental behavior, nesting behavior, *Oceanodroma furcata*, USA, Alaska, Barren Is. 2527
 parturition behavior, reproductive behavior, *Sus scrofa* 3558
 reproductive behavior, sexual receptivity, pheromones, environmental conditions, *Thamnophis sirtalis parietalis* 2444
 social behavior, evolution, Aves, *Mammalia* 2556
 social behavior, evolution, environmental conditions 2555
 social behavior, territorial behavior, agonistic behavior, *Oenanthe isabellina* 3622
 song, alarm behavior, *Cisticola juddis* 2306
 territorial behavior, colonies formation, *Larus ridibundus* 3470
 territorial behavior, wildlife management, *Odocoileus virginianus* 2488
 vocalization behavior, *Felidae* 3432
- Breeding behavior**,
 burrowing behavior, social interactions, home range, dispersal, *Gopherus polyphemus*, USA, Georgia 510
 communal breeding, infanticide, *Apelocoma ultramarina*, *Crotaphaga ani* 167
Eudulus minor, Australia, Victoria 171
- Breeding sites**,
 feeding behavior, agricultural land, *Agelaius tricolor*, USA, California 354
 isolation, interspecific relationships, *Parus atricapillus*, *Parus carolinensis* 176
 population density, territorial behavior, environmental factors, *Haematopus ostralegus*, Netherlands, Vlieland I. 161
 selection, effects on breeding success, *Pseudolabrus celidotus* 154
 sex ratio, mate selection, *Larus argentatus* 162
- Breeding status**,
 effects on aggressive behavior, *Meriones unguiculatus* 1336
 gravid, virgins, activity patterns, resting behavior, females, *Glossina morsitans morsitans* 2418
- Breeding success**,
 agonistic behavior, dominance, males, *Papio* 2377
 body size, mating behavior, sexual selection, *Bufo americanus* 2443
 breeding sites selection effects on, *Pseudolabrus celidotus* 154
 colonies, habitat preferences, *Rynchops niger*, USA, New Jersey, Barnegat Bay 2464
 competition effects on, food availability, *Parus caeruleus*, *Parus major* 1307
 copulation, body size, effects on, strains, *Musca domestica* 1277
 copulation, competition, social hierarchy, rats 3562
 copulation, courtship, *Procambarus clarkii* 3489
 copulation, social rank 3486
 copulation, social rank effects on, *Peromyscus maniculatus* 1332
 copulation time, adaptiveness, *Nezara viridula* 1540
 dirotrophus, pollution effects, *Sturmia vulgaris* 3586
 feeding behavior, forests, *Parus major* minor, Japan 1308
 fitness dominance
 males, song effects on, *Parus major* 35
 mate selection, body size, *Tetraopis tetraopthalmus* 2398
 mating behavior, courtship, vocalization, females, *Eutamias* 2490
 mating behavior, fitness, *Drosophila* 2409
 mating behavior, functional morphology, chelicerae, *Macrobrachium nipponense* 2385

Breeding success, (continued)

- mating behavior, territorial behavior, polygyny, *Agelias phoenixes* 3539
 mating behavior, territorial behavior, *Tamiasciurus douglasii* 3557
 nest building, nesting behavior, sex hormones, *Streptopelia risoria* 3533
 nesting behavior, artificial substrates effects on, *Corvus monedula* 2460
 nesting behavior, *Cephus grylle* 1304
 nesting behavior, reproductive behavior, *Lagopus lagopus lagopus* 2457
 nesting behavior, territorial behavior, population density, *Larus marinus* 3585
 nesting behavior, *Zenaidura macroura* 1333
 pair bond strength effects on 1233
 parental behavior, natural selection, *Lycon pictus* 2544
 parental behavior, nests, *Ophodon elongatus* 2452
 parental behavior, reproductive strategy, mice 2543
 parental behavior, social organization, *Branta canadensis maxima* 2456
 parental behavior, song, males, *Saxicola torquata* 2538
 population density, nesting behavior, competition, *Ardeidae*, France, Camargue 1306
 reproductive behavior, feeding behavior, habitat preferences, nesting behavior, *Toxostoma curvirostre*, *Toxostoma longirostre* 168
 reproductive behavior, genetic factors, mice 3849
 reproductive behavior, *Oreoscoptes montanus*, *Amphispiza belli*, *Spizella breweri*, USA, Idaho 2465
 reproductive behavior, predatory behavior, *Falco peregrinus* 3718
 reproductive behavior, *Pygoscelis papua*, Marion Island 160
 reproductive strategy, infanticide, mathematical models, *Presbytis* 2509
 reproductive strategy, oviposition synchronization, *Rana sylvatica* 3525
 social hierarchy, pleometrotic foundations, haplometrotic foundations, *Polistes gallicus* 2372
 social rank, mate selection, rats 1560
 social rank, temporal variations, birth, *Macaca mulatta* 3484
 song nursery, *Passerna cyanea* 2292
 territorial behavior, activity patterns, *Sceloporus virgatus* 1594
 territorial behavior, mate selection, nests, courtship interference, *Gasterosteus aculeatus* 3528
 territorial behavior, population structure, *Zonotrichia leucophrys nuttalli* 2357
 territorial behavior, song, *Vireo olivaceus* 2294
- Breast anchorage**,
 mate selection, aggressive behavior, body size, sexual selection 2421
- Brevortia tyranus**,
 feeding behavior, swimming, locomotor activity, respiration, controlled conditions 346
- Brienomyrus**,
 electric perception, electric organs 3078
- Brienomyrus niger**,
 water conductivity effects on electric communication 3397
- Bromocriptine**,
 dihydroergotamine, drug effects, sleep and wakefulness, sleep (REM), rats 980
 drug effects, aggressive behavior, sleep (REM) deprivation, rats 1005
 drug effects, 6-hydroxydopamine, escape behavior, locomotor activity, juveniles, rats 2167
 effects on sexual behavior, males, rats 4319
- Broad care**,
 alumnus, *Lamprologus brichardi*, Burundi, Lake Tanganyika 227
 eggs, maternal behavior, females, *Labidura riparia* 3500
 feeding behavior, parasitism, *Regulus calendula*, *Molothrus ater* 2525
 hosts, parasites rearing, *Cuculus canorus* 2533
 incubation behavior, survival, Aves 202
 interspecific relationships, parasites, *Clamator jacobinus*, *Turdoides affinis* 2539
 Jabiru myctera 2473
 nest provisioning, *Melospiza melodia* 2537
 nest provisioning, social organization, trophallaxis, environmental effects, *Tapinoma erraticum* 2559
 nesting behavior, colonial characteristics, predation effects on, *Lepomis macrochirus* 2453
 nesting behavior, paternal behavior, *Gasterosteus aculeatus* 3584
 nest manipulation, eggs, hatching, *Alligator mississippiensis* 3583
 parental behavior, adaptations, protection, environmental conditions, *Euscorpius* 2516
 parental behavior, *Ancistrocerus adiabatus*, *Euodynerus foraminatus* 1257
 parental behavior, books 4496
 parental behavior, brood-mixing, survival, *Tadorna tadorna* 2528
 parental behavior, motivation, *Sarotherodon mossambicus* 4128
 parental behavior, nesting, *Copris lunaris* 2517
 parental behavior, *Parus major*, *Turdus merula* 3588
 parental behavior, rearing, *Tyto alba* 2535
 parental behavior, sex differences, *Aequidens paraguayensis* 2523
- Brood disease**,
 disease resistance, larvae removal, workers, *Apis mellifera* 3785
- Brood rearing**,
 feeding behavior, diets, *Desmognathus fuscus fuscus* 329
 nesting behavior, *Chaetura pelagica* 2540
 parental behavior, dispersion, survival, juveniles, *Branta canadensis* 201
- Bubalus bubalis**,
 thermoregulatory behavior, diel variations 3818
- Bufo**,
 feeding behavior, food preferences, predators 328
- Bufo americanus**,
 activity patterns, environmental factors, diurnal variations, temperature effects, climate, Canada 1558
 mating behavior, body size, breeding success, sexual selection 2443
 taste aversion learning, lithium chloride, food organisms 2947
- Bufo americanus hemaphysa**,
 feeding behavior, food organisms, *Agelias phoenixes* 2663
- Bufo arenarum**,
 escape learning, performance 562
 water balance, regulation, drinking behavior 3803
- Bufo boreas**,
 learning behavior, prey odors, *Insecta* 1449
- Bufo bufo**,
 neurons, responsiveness, food organisms, optic tectum, cortex (sensorimotor) 1978
- Bufo regularis**,
 EEG, activity patterns, orientation, defensive behavior 3140
- Bufo viridis viridis**,
 auditory perception, conspecifics vocalization behavior, neurons 3070
- Bufo woodhousei**,
 mating behavior vocalization behavior, thermoregulatory behavior effects on 149
 schooling behavior, spatial distribution, orientation, larvae 3796
- Bulfinch**,
 avoidance learning, passive avoidance, operant conditioning, fighting, shock 1718
- Bulbulcus ibis**,
 mating behavior, copulation, aggressive behavior, dominance, males 1298
- Bulbus africanus**,
 circadian rhythms, locomotor activity, feeding behavior 4135
- Bullfighting**,
 ethology 2214
- Bulls**,
 bullfighting, ethology 2214
- α-Bungarotoxin**,
 drug effects, suprachiasmatic nucleus, light effects, pineal gland, enzymatic activity, circadian rhythms, rats 764
- Buphagus erythrorhynchus**,
 feeding behavior, hosts, *Ungulata* 2717
- Burnt ground**,
 heaths, feeding behavior, food organisms, *Hepialus juveniles*, *Pyrrhocorax pyrrhocorax* 2713
- Burrowing**,
 feeding behavior, comparison, *Glycera alba*, *Glycera maculata* 271
 substrate preferences, orientation, *Ebalia tuberosa* 427
- Burrowing behavior**,
Alba nitida, *Alba longicaulis* 429
 activity patterns, diel variations, *Geolycosa domifex* 431
 activity patterns, environmental factors, diurnal variations, *Bufo americanus*, Canada 1558
 breeding behavior, social interactions, home range, dispersal, *Gopherus polyphemus*, USA, Georgia 510
 defense mechanisms, prey attraction, *Cicindela willistoni*, USA, Arizona, Sulphur Springs Valley 2802
 defensive behavior, conditioned response, shock, preexposure, strains, rats 3977
 digging, operant response, reinforcement, rats 1690
 food preferences, sexual reproduction, seasonal variations, environmental factors, *Thomomys bottae* 489
 fossils, functional morphology, skeleton, *Proscalopidae* 4072
 habitat preferences, vegetation patterns, *Insectivora* 487
 home range, *Marmota menzbieri*, USSR 3823
 larvae, metamorphosis, *Muraenichthys gymnotus* 2828
 pupation, *Dytiscus verticalis* 2799
 nesting behavior, sexual reproduction, *Geositta peruviana*, Peru 3535
 pits construction, soil temperature, light intensity, *Myrmecodon immaculatus* 2801
 population density, seasonal variations, *Brachytrypus portentosus* 2788
 substrate preferences, juveniles, *Homarus americanus* 2778
 tidal rhythm, diel variations, *Nenia polia* 2770
- Burrowing organisms**,
 activity patterns, rhythms, nycturnal rhythms, *Penaeus vannamei*, Mexico Coast 746
 feeding behavior, droving, food availability, *Uca vocans vocans*, *Uca lactea perlepa* 2623
- Burrows**,
 copulation, territorial behavior, nests, body size, males, *Ocyrops* 2801
 ceratophthalms 2383
 environmental conditions, effects on aggression, rats 1206
 morphology, effects on vocalization behavior acoustics, *Heleioportus* 33
 nesting behavior, usurpation, *Crabro monticola* 3522
 nesting behavior, visual stimuli, *Tridentiger obscurus* 2835
 sex pheromone, mating behavior, *Sphodros abouli*, *Sphodros rufipes* 2889
 spatial distribution, territorial behavior, reproductive strategy, *Thomomys bottae* 2368
- Bursatella leachi piei**,
 locomotor activity, circadian rhythms, optic nerve, neurophysiology 3089
- Burying behavior**,
 aversion learning, defensive behavior, rats, mice, guinea-pigs, hamsters 3975
 aversive stimuli, defensive behavior, rats 3833
 aversive stimuli, defensive behavior, rats 3834
 defensive behavior, backward conditioning, rats 3932
 defensive behavior, conditioning, contextual control, rats 3929
- Buspirone**,
 drugs, aggressive behavior, inhibition, *Macaca mulatta* 1031
 effects on conflict behavior, rats, monkeys 3259
- Buteo jamaicensis**,
 flight activity, environmental effects, weather 1872
 nesting behavior, site selection, environmental factors, USA, Appalachian Mts. 474
- Buteo lineatus**,
 nest building, habitat preferences 3540
 nesting behavior, site selection, environmental factors, USA, Appalachian Mts. 474
- Buteo platypterus**,
 nesting behavior, site selection, environmental factors, USA, Appalachian Mts. 474
- Butylated hydroxyanisole**,
 effects on wheel running, rats 3242
- Cacaca**,
 visual deprivation effects on lateral geniculate nucleus morphology 805
- Cacatua roseicapilla**,
 pair bond, grooming, sex differences, social interactions 3620
- Cadaverine**,
 effects on food hoarding, rats 1507
- Cadmium**,
 chronic effects, aggressive behavior, rats 63
 effects on locomotor activity, discrimination learning, rats 4300
- Cadra cautella**,
 copulation, release factors, physical characteristics 124
- Caenorhabditis elegans**,
 5-hydroxytryptophan effects on motor activity, aging 4185
- Caerulein**,
 effects on exploratory behavior, mice 4335

- Caffeine**,
drug effects, avoidance behavior, memory, rats 974.
drug effects, stimulus control, rats 2104.
drug effects, tactile stimuli, startle response, reactivity, rats 2144.
drug effects on schooling behavior, spatial distribution, *Hemichromis bimaculatus* 4282.
effects on avoidance learning, prenatal experience, mice 1604.
effects on locomotor activity, 6-hydroxydopamine lesions, rats 890.
effects on memory, rats 3231.
effects on operant response rate, reinforcement schedules, rats 4287.
effects on self-injury behavior, rats 3266.
effects on suckling behavior, activity patterns, juveniles, rats 4309.
- Cages**,
crowding, effects on food consumption, *Colinus virginianus* 1482.
equipment, methodology, rats, mice 1090.
space effects, copulation, latency, mice, *Peromyscus maniculatus* 1322.
- Cajanus cajan**,
host plants, substrate preferences, oviposition, *Melanagromyza obtusa* 2435
- Calanoida**,
feeding behavior, feeding apparatus 2615
- Calanus finmarchicus**,
feeding behavior 1402.
- Calanus glacialis**,
feeding behavior 1402.
- Calanus hyperboreus**,
feeding behavior 1402.
- Calculus obscurus**,
habitat selection, shells morphology, environmental factors 424.
- Calcium**,
ventricles (cerebral) injection, effects on feeding behavior, drinking behavior, heart rate, sheep 799.
- Calcium valproate**,
effects on agonistic behavior, mice 4390.
- Calidridinae**,
social behavior, evolution, parental behavior, reproductive behavior, seasonal variations 507.
- Calidris alba**,
foraging behavior, habitat, tides effects on 3703.
sex differences, spatial distribution, overwintering 3812.
- Callicebus moloch**,
problem solving, social organization, sympatric populations, *Saimiri sciureus* 4018.
vocalization behavior, territorial behavior, social spacing 3481.
- Callinico goeilli**,
social organization, ecological distribution effects on, habitat preferences, Bolivia 1380.
- Callinectes arcuatus**,
diets, feeding behavior 2614.
- Callinectes sapidus**,
feeding behavior, energetics, food organisms, *Geukensia demissa* 2618
- Callinectes toxotes**,
diets, feeding behavior 2614.
- Calling behavior**,
auditory communication, geographical variations, reproductive isolation, *Muehlenbergia* 3382.
auditory communication, *Gryllidae* 2258.
maternal effects, imprinting, visual preferences, juveniles, ducks 1601.
mating behavior, *Antheraea yamamai*, Japan 1254.
mating behavior, *Heliothis virescens* 1246.
mating behavior, light intensity, temperature effects, females, *Chilo suppressalis* 1287.
mating, sound production, intensity, *Salientia*, Africa 3396.
pheromone emission, *Pseudaletia unipuncta* 2276.
reproductive behavior, *Chrysopa oculata*, *Chrysopa chi* 2419.
sexual behavior, *Anticarsia gemmatilis* 1132.
song, motivation, *Taeniopygia guttata* 1172.
sound production (biological), focalization, *Cebuella pygmaea* 1186.
sound production, reproductive isolation, *Nephrotettix cinctus*, *Nephrotettix virescens*, *Nephrotettix nigropictus*, *Nephrotettix malayanus* 3379.
stridulation, courtship, males, *Ligyrocotis diffusus* 1250.
ultrasounds, estrous cycle, hamsters 1327.
vocalization behavior, mate selection, *Hyperolius marmoratus* 1155.
vocalization behavior, *Pipilo ocal*, *Pipilo erythrophthalmus*, *Atlapetes brunneicauda*, *Atlapetes pileatus* 2354.
vocalization behavior, song complexity, learning behavior, geographical variations, *Troglodytes troglodytes* 42.
- Callistoma ligatum**,
anti-predator behavior, escape behavior, *Pisaster giganteus* 2619.
- Calliphora erythrocephala**,
aerodynamic properties, flight 686.
optomotor response, electrical stimulation, ganglia, flight 914.
- Calliphora vomitoria**,
habituation, retention, cardiac conditioning 529.
- Callithrix argentata**,
agonistic behavior, social interactions, scent marking behavior 3643.
- Callithrix humeralifer**,
social behavior, ranging behavior 246.
- Callithrix jacchus**,
drug effects, L-Dopa, apomorphine, methamphetamine, activity patterns, posture 971.
social behavior, scent marking behavior, social behavior 2512.
visual discrimination learning, noradrenaline role 4012.
- Callithrix penicillata penicillata**,
feeding behavior, Brazil, Minas Gerais State 2766.
- Callosinus ursinus**,
feeding behavior, food preferences, seasonal variations 2757.
reproduction, annual cycles, photoperiods effects on 1318.
- Callosobruchus chinensis**,
oviposition, substrate preferences, host plants 3503.
- Callosobruchus maculatus**,
markers, host selection, legumes 1244.
oviposition, substrate preferences, host plants 3503.
- Calopogon discrepans**,
mating behavior, copulation 1255.
- Calopteryx cornelia**,
territorial behavior, dispersal, Japan, Fukuoka, Muroimi R. 3464.
- Calories**,
short-term variations, effects on motor activity, rats 1500.
- Calycophore**,
feeding behavior, diel variations, Sargasso Sea, USA, Washington Coast 278.
- Cameras**,
methodology, night activity, *Insecta* 3335.
- Camouflage**,
cryptids, preferences, algae, *Pugetia producta* 3771.
- Camponotus compressus**,
food preferences, gustatory stimuli, urea, sugars 3674.
- Camponotus pennsylvanicus**,
aggregation pheromone, swarming behavior 3393.
- Camponotus vagus**,
colonial characteristics, foraging behavior, feeding behavior, food intake 1412.
- Canachites canadensis**,
migrations, dispersal, sex differences, age 664.
- Canada, James Bay**,
migrations, distribution, comparative studies, *Coregonus artedii*, *Coregonus clupeaformis* 648.
- Cancer irroratus**,
feeding behavior, diets, Canada, Nova Scotia Coast 2605.
- Cancer magister**,
feeding behavior, pollution effects, oil pollution, USA, Washington Coast 2621.
- Canis familiaris**,
case surveys, aberrant behavior, aggression, veterinary medicine 3344.
communication, posture 3346.
- Canis familiaris**,
cognitive ability, problem solving 2979.
- Canis latrans**,
activity patterns, food availability, social organization 2736.
avoidance behavior, aversion learning, lithium chloride, predation 1732.
feeding behavior, diets, lithium chloride, bait shyness, aversion, growth 391.
predator-prey interactions, juveniles, *Odocoileus hemionus*, USA, Colorado 1224.
predatory behavior, interspecific relationships, *Odocoileus hemionus* 3738.
social organization, food organisms size effects on 237.
spatial distribution, predation, age effects 89.
territorial behavior, range, parapatric populations, *Canis lupus*, Canada, Alberta 3475.
territorial behavior, social organization, survival, forests, Canada 3836.
vocalization behavior, seasonal variations, diel variations 3435.
- Canis lupus**,
agonistic behavior, social organization 3446.
feeding behavior, predation, surplus killing, *Rangifer tarandus*, USA, Alaska 3735.
predatory behavior, interaction, *Ursus americanus*, USA, Minnesota 3734.
sheltering behavior, ranging behavior, habitat utilization, vocalization behavior, USA, Minnesota, Superior National Forest 3821.
social behavior ontogeny, rearing, handling effects on 2916.
territorial behavior, predatory behavior, movements, USA, Minnesota 3477.
territorial behavior, range, parapatric populations, *Canis latrans*, Canada, Alberta 3475.
- Canis lupus lycaon**,
cognitive ability, problem solving 2979.
social behavior, social organization 3633.
- Canis lupus pambasileus**,
feeding behavior, food preferences, winter 404.
- Cannabidiol**,
effects on novelty fear, feeding behavior, conflict behavior, rats 4368.
- Cannibalism**,
breeding success, nesting behavior, artificial substrates effects on, *Corvus monedula* 2460.
carrion, feeding behavior, *Crotalus viridis helleri* 3684.
feeding behavior, infants, *Pan troglodytes* 3765.
feeding behavior, larvae, *Diaconia obliqua* 321.
infanticide, maternal behavior 1350.
maternal behavior, hoarding behavior effects on, hamsters 3570.
population regulation, colonies, queens, *Hymenoptera* 220.
predator behavior, prey abundance, predator-prey interactions, *Adalia bipunctata*, *Euclyptus tiliae* 3508.
- Canthagaster jactator**,
thermoregulatory behavior, temperature tolerance, Indo-Pacific region 1562.
- Canus latrans**,
fighting, agonistic behavior, social hierarchy 1205.
- Capillaster multiradiatus**,
spawning behavior, night, Palau Is. Coast 3487.
- Caprimulgus europaeus**,
life history, breeding, temperature effects 175.
- Capra hircus**,
feral populations, females, suckling behavior, self-suckling 1505.
movements, radio-tagging 4428.
- Capra sibirica**,
reproductive behavior, parental behavior, parturition behavior 3577.
- Capra waalei**,
social behavior, groups, social rank, aggressive behavior 2582.
- Capreolus capreolus**,
feeding behavior, food composition, winter 2760.
feeding behavior, food preferences, energy requirements, Greece 1489.
home range, territorial behavior, radio-tagging, seasonal variations 2365.
- Caprimulgus carolinensis**,
song, auditory communication, habitat, USA, Georgia 1158.
- Caprimulgus voliferus**,
song, auditory communication, habitat, USA, Georgia 1158.
- Capsaicin**,
effects on pain perception, avoidance behavior, rats 4356.
- Captivity**,
activity patterns, rhythms, wheel running, *Isodon macrourus*, *Parames lesnata* 3101.
mating behavior, social interactions, agonistic behavior, *Erythrocebus patas* 1342.
- Capture**,
efficiency, light effects, dark, predator-prey interactions, *Chaoborus punctipennis*, *Copepoda* 301.
predatory behavior, *Serrastroma serrula* 2656.
- Capture-recapture studies**,
marking, mating behavior, *Glossina morsitans* 1086.
sex pheromone pheromone traps, simulation models, *Plutella xylostella* 12.

- Carabidae**,
leg. morphology, locomotion 4069
- Carass gubilis**,
predatory behavior, predator-prey interactions, Indian Ocean, Aldabra Atoll 1463
- Carax melampyris**,
predatory behavior, predator-prey interactions, Indian Ocean, Aldabra Atoll 1463
- Carassius auratus**,
brain, electrical properties, seasonal variations 3141
classical conditioning, overtraining, extinction 530
conditioned response, electric currents, threshold sensitivity 3080
discrimination learning, avoidance learning 3990
discrimination learning, avoidance learning, reversal learning, shock, cues, color 2948
 β -endorphin, effects on schooling behavior 3143
feeding behavior, ablation, brain, forebrain, learning behavior 343
forebrain lesions, effects on sexual behavior, spawning behavior, males 4219
habituation, heart arousal response, telencephalon ablation 3118
operant conditioning, schedule, food stimuli effects on 533
reward, reinforcement, visual stimuli, color, patterning 1646
startle response, electrophysiological recording, cinematography 1914
visual perception, eye movements 1887
- Carassius morosus**,
electrophysiological recording, feedback control, leg muscles 688
locomotor activity, feedback control, leg, muscles 687
motor activity, nervous system effects on 683
- Carbachol**,
drug effects, locomotor activity, nucleus accumbens, rats 942
effects on aggression, cats 66
effects on aggressive behavior, cats 4270
effects on agonistic behavior, defensive behavior, cats 995
effects on defensive behavior, optomotor response, vocalization behavior, cats 76
wet-dog shakes, rats 4362
- Carbacol**,
effects on sexual behavior, females, rats 2500
effects on sexual behavior, rats 3146
- Carbamazepine**,
effects on emotional behavior, shock 1020
- Carbaril**,
effects on variable interval schedule response, rats 2092
- Carbaryl**,
pollution effects, ventilatory behavior, *Macropodus cupanus* 3807
- Carbohydrates**,
chemical stimuli, feeding behavior, *Uca pugnator* 267
food preferences, morphine effects on, rats 4386
- Carbon dioxide**,
effects on males sexual behavior, *Musca domestica* 107
effects on memory, aging, rats 4025
- Carbon monoxide**,
effects on operant conditioning, reinforcement schedules, tolerance, rats 3941
effects on operant response, reinforcement schedules, rats 4298
intrauterine exposure, effects on learning behavior performance, rats 1608
- Carcinus phaeus**,
feeding behavior 1454
- Carcinus maenas**,
avoidance behavior, learning behavior, neurons physiology 815
learning behavior, avoidance learning, locomotor activity 559
mating behavior, copulation 3488
- Cardiac conditioning**,
aversion learning, blood flow, dogs 1766
blood circulation effects on, intrauterine exposure, dogs 1619
blood pressure, operant conditioning, Papio 1712
development, juveniles, cats 1623
habituation, retention, *Calliphora vomitoria* 529
heart rate, vagal cardiac neuron, neurophysiology, visual evoked response, pigeons 1981
latent inhibition, rabbits 1753
opiates effects on, amygdala, rabbits 928
- Cardinalis cardinalis**,
food preferences, seeds 358
- Cardiocranius paradoxus**,
comfort behavior, cleaning behavior 492
- Cardiovascular system**,
physiology, fighting, defensive behavior effects on, cats 75
stress, diving, *Ondatra zibethica* 3370
- Carduelis chloris**,
food preferences, diets, *Passer domesticus*, New Zealand, Hawkes Bay 362
hosts, parasites rearing, brood care, *Cuculus canorus* 2533
- Carduelis splans**,
activity patterns, circadian rhythms, seasonal variations 4137
activity patterns, locomotor activity, circadian rhythms, circannual rhythms, environmental effects 1936
- Caretta caretta**,
diurnal variations, nesting behavior, USA, Florida Coast 3523
reproductive behavior, migrations, imprinting 2906
- Caribvora**,
home range, diets 2754
social behavior, predatory behavior, reviews 3835
- Carnivores**,
feeding behavior, *Crotalus atrox*, *Elaeophis obsoleta* 325
resource exploitation, mathematical models, predator-prey interactions, social interactions, territorial behavior 1068
- Carnivory**,
feeding behavior, *Pyrrhula pyrrhula* 2718
- Carotid sinus nerve**,
denervation, sleep and wakefulness, chemoreception, gases, hypoxia, rats 4147
- Carpodacus erythrinus**,
photoperiods, circadian rhythms, males, testicular recrudescence 1937
- Carbotus xanthogramma**,
mating behavior, silk rope 2395
- Carries**,
cannibalism, feeding behavior, *Crotalus viridis helleri* 3684
conspecifics, feeding behavior, *Mammalia* 3751
feeding behavior, carnivores, *Crotalus atrox*, *Elaeophis obsoleta* 325
feeding behavior, winter, *Stercorarius parasiticus* 2733
location, foraging behavior, *Nicrophorus carolinus* 2650
- Carrying capacity**,
niche, sheltering behavior, summer, intraspecific relationships, competition, *Setonix brachyurus* 2857
- Caryothraustes canadensis polioaster**,
social organization, feeding behavior, defensive behavior, flocking behavior, Costa Rica 2574
- Case surveys**,
veterinary medicine, aberrant behavior, aggression, *Canis familiaris* 3344
- Casmerodius albus**,
flocking behavior, food sources 356
- Cassidae**,
feeding behavior, functional morphology, diets 2625
- Cassia tuberosa**,
feeding behavior, functional morphology, diets 2625
- Caste differentiation**,
social organization, feeding behavior, division of labor, *Pogonomyx owyheei* 1362
- Castes**,
chemical communication, trophallaxis, colonial characteristics, *Apis mellifera* 2277
intraspecific relationships, aggression, colonial characteristics, *Monomorium pharaonis* 1192
population structure, environmental effects, stress, *Formica obscuripes* 457
social behavior, colonial characteristics, *Lasioslossum zephyrum* 2562
social behavior, colonial characteristics, *Lasioslossum zephyrum* 2567
social behavior, dominance, colonies, *Bombus terrestris* 2371
social behavior, queens pheromones effects on, *Apis mellifera* 1363
- Caster canadensis**,
chemical communication, castor sacs, anal glands 3427
- Castration**,
effects on drinking behavior, rats 905
effects on fighting, males, mice 1207
effects on food intake, hamsters 3747
effects on sexual behavior, males, *Peromyscus maniculatus* 3323
effects on social interactions, scent marking behavior, *Saguinus fuscicollis* 244
effects on stereotyped behavior, rats 3325
estradiol effects on copulation reflexes 2181
estrogens, testosterone, vocalization behavior, courtship, males, *Streptopelia risoria* 2174
sex hormones, sexual behavior, rats 2494
testosterone effects on olfactory preferences, neophobia, hamsters 2184
- Cataglyphis**,
stereotyped behavior, homing behavior 1840
- Cataglyphis albicans**,
stereotyped behavior, homing behavior 1840
- Cataglyphis bicolor**,
stereotyped behavior, homing behavior 1840
- Catalpeps**,
cataptonia, neurotransmission, rats 2243
convulsions, shock, drug effects, rats 739
drug effects, AMPA, rats 2170
intracranial chemical stimulation, AMPA, substantia nigra, rats 795
intracranial chemical stimulation, nucleus accumbens, dopamine, *Saimiri sciureus* 2011
neck pinching, survival adaptations, predators, mice 1575
postural immobility syndrome, neurotransmission, rats 2243
- Cataptonia**,
convulsions, shock, drug effects, rats 739
postural immobility syndrome, neurotransmission, rats 2243
- Cataulacus guineensis**,
defensive behavior, nests, Ghana 56
- Catching methods**,
traps, sex pheromone, bait, males, females, *Dioryctria disclusa*, USA, South Carolina 639
- Catecholamine**,
brain biosynthesis, chronic exposure, apomorphine, effects on, rats 849
brain, drug effects, L-Dopa, apomorphine, methamphetamine, *Callithrix jacchus* 971
metabolism, interference, drug self-administration modification, levorphanol, rats 4168
neurotransmitters, biochemical characteristics, metabolism, delayed response, cats 866
neurotransmitters, schedule-induced behavior, amygdala, caudate putamen, hypothalamus, *Rattus rattus* 841
- Catecholamines**,
activity patterns, 6-hydroxydopamine effects on, rats 3174
brain, lead effects on, schedule-induced behavior, pigeons 3225
brain, open-field behavior, rats 3158
circadian rhythms, motor activity, strains, rats 1586
corticosterone, plasma, stress indicators, rats 2236
drug effects, p-chloroamphetamine, rats 2153
drugs, effects on emotional behavior, rats 3275
drugs, release factors, neurochemistry, activity patterns, rats 3178
effects on memory, avoidance learning, rats 2989
latency, drug effects, 6-hydroxydopamine, avoidance learning, rats 1734
physical activity, pons norepinephrine, drug effects, morphine, amphetamine, rats 2142
- Cathartes aura**,
migrations 4060
- Cathartes burrovianus**,
migrations 4060
- Catharus fuscescens**,
nesting behavior, nest building 3547
- Cathinone**,
effects on stereotyped behavior, dopamine transport, rats 2090
- Catoprophorus semipalmatus**,
reproductive behavior, salt marshes, USA, Virginia Coast 2573
- Cats**,
aberrant behavior, age, behavior therapy 4455
acoustic startle response, leptazol side effects 740
adult, aggressive behavior, predation, defense, development, early experience 71
aggression, midbrain hypothalamus interaction effects on 66
aggressive behavior, carbachol effects on 4270
apomorphine, neurochemistry, dopamine, 5-hydroxytryptamine, activity patterns 3271
arousal, neurons activity 4205

Cats, (continued)

- asymmetry, morphology, cortex, handedness, cerebral dominance, visual discrimination 796.
 aversion conditioning, methodology, instruments, measuring techniques 199.
 aversion learning, appetitive conditioning, hippocampus waves activity 869.
 aversion learning, heart rate, habituation, adults, neonates 3968.
 avoidance behavior, neurophysiology, EEG, hippocampus 2003.
 biting behavior mediation, hypothalamus neurons 4197.
 brain, neurophysiology, auditory stimuli, electrical stimulation 731.
 carbocel effects on agonistic behavior, defensive behavior 995.
 chemoreceptors, septum, dopamine drugs, stereotyped behavior, locomotor activity 850.
 classical conditioning, motor neurons activity 4201.
 climbing, behavior modification, punishment 578.
 conditioning, neurophysiology, neurons 809.
 cortex (entorhinal) lesions effects on open-field behavior 2030.
 cortex (visual), electrical properties, conditioning 1987.
 cortex (visual) lesions, discrimination learning, early experience effects on 2056.
 delayed response learning behavior, motor activity, reticular formation, electrophysiological recording 843.
 delayed response, neurotransmitters, serotonin, catecholamine, metabolism, biochemical characteristics 866.
 delayed response, self-stimulation, emotional behavior, stress 1106.
 development, cardiac conditioning, visual perception, juveniles 1623.
 drug effects, pilocarpine, grooming, physical activity, limbs 2155.
 EEG, cerebellum, arousal, sleep 2005.
 emotional behavior, defensive behavior, optomotor response, vocalization behavior 76.
 β -endorphin effects on sleep and wakefulness 3113.
 environmental factors effects on drug effects, grooming, reflexes 969.
 ESB, cortex (auditory), midbrain, reticular formation, thalamus, orientation habituation 3211.
 ESB, hippocampus, operant conditioning 3213.
 ESB, hypothalamus, aggression, mediation, choline, muscarine 3214.
 ESB, substantia nigra, stereotyped behavior 3217.
 feeding behavior, taste preferences, obesity 1917.
 fighting, defensive behavior, cardiovascular system physiology 75.
 go/no go discrimination learning, effects on amines, brain 1991.
 head movements, measuring techniques, equipment 4430.
 homing behavior, acoustic stimuli, juveniles 1856.
 intracranial chemical stimulation, drug effects, 6-hydroxydopamine, reserpine, ventricles (cerebral), aggressive behavior 997.
 intracranial chemical stimulation, glutamate, effects on defensive behavior 4274.
 interocular transfer, reversal learning, corpus callosum 591.
 juveniles, aggressive behavior, predation, defense, development, early experience 72.
 juveniles, aggressive behavior, predation, defense, development, hunger 73.
 juveniles, auditory perception threshold development 736.
 juveniles, drug effects, phenylcyclidine, chronic effects, locomotor activity, age 1008.
 juveniles, orientation, development, cortex (visual), visual perception, neurons, enucleation 861.
 juveniles, weaning, feeding behavior 1518.
 kainic acid, intracranial chemical stimulation, hallucinations, predatory behavior 3219.
 lesions, cortex (temporal), visual discrimination, discrimination learning 2033.
 lesions, septum, defensive behavior, flight 2018.
 lesions, substantia nigra, conditioned response, feeding behavior, defensive behavior 2019.
 locomotion effects on neurons polarization, spinal cord 844.
 locomotion, motor activity control, muscles, nerves 696.
 locomotion, neurophysiology 3148.
 motor activity, cortex, auditory stimuli 855.
 motor activity, cortex (motor) electrical stimulation effects on 920.
 naloxone effects on food consumption 3265.
 neurons, cortex (visual), neurophysiology, visual stimuli, appetitive behavior 2008.
 neurophysiology, nerve transmission, cortex, brain, EEG, arousal, resting behavior 860.
 neurophysiology, Purkinje cells, cerebellum, vermal zones, locomotion 3168.
 olfactory deprivation, feeding behavior, juveniles 4110.
 orientation selectivity, striate cortex, stimulus contrast 3128.
 quipazine, effects on sleep (REM) 3303.
 rhythms, cortex, thalamus, attention, immobilization 862.
 rhythms, seasonal variations, grooming, photoperiods, lesions, pons 1939.
 scent marking behavior, chemical communication 3423.
 sexual behavior, electrophysiological recording methodology, telemetry, amygdala, hippocampus 421.
 sleep and wakefulness, electrophysiological recording, 5-hydroxytryptamine neurons, globus pallidus 4143.
 sleep, electrical stimulation, hypothalamus, effects on, respiration 921.
 sleep, midbrain, electrophysiological recording 3111.
 sleep (paradoxical), exploratory behavior, pons lesions 3114.
 sleep (paradoxical), lateral geniculate nucleus, neurons, depolarization 1992.
 sleep (paradoxical), thermoregulatory behavior 4146.
 spatial discrimination learning acquisition, thalamic mediodorsal nucleus, mammillary bodies lesions effects on 4245.
 spinal cord lesions effects on motor activity 1983.
 stress, discrimination learning CS effects on 552.
 thermoregulatory behavior, motor activity, opioids effects on 4376.
 vision, coordination, eye, neck, muscles, vestibular nystagmus 3129.
 visual deprivation, recovery of function, visual perception, motor activity 3057.
 visual discrimination, memory, bilateral engram storage, corpus callosum 4028.
 visual perception, cortex (visual) lesions, deprivation 4088.
 visual perception, critical flicker frequency, visual deprivation 4087.
 visual perception, cyclopropanol 3058.
 visual perception, depth, cortex (visual) ablation effects on 3059.
 visual perception, object permanence 4090.
 visual perception, visual deprivation, early experience effects on 3060.
 visual perception, visual deprivation effects on 4089.
 walking, coordination, limbs, Deiters' neurons, activity 3046.
 walking, coordination, limbs, electromyographic activity, ablation, cerebrum 3047.
 yawning behavior, serotonin, dopamine effects on 1967.

Cattle,

- dispersal, aggregation, foraging behavior 3350.
 dominance, social hierarchy, housing preferences 2219.
 dominance, social hierarchy, phenotypes 1377.
 exploratory behavior, age effects 2227.
 feeding behavior, grazing 1212.
 food preferences, grazing, diets, nutrition 1499.
 grazing, grasses, digestion 398.
 grazing, walking distance, management 3355.
 grazing, walking, effects on, reproductive behavior 2207.
 locomotor activity, habituation 2210.
 males, sexual behavior, aggressive behavior, activity patterns, androgens 181.
 males, social behavior, sexual behavior, behavioral genetics, dominance 182.
 mating behavior, copulation, breeding 2499.
 mating behavior, males, breeding, reviews 4449.
 maze learning, discrimination learning 1785.
 milk production, yield, locomotor activity, sequence, cow entry order, orientation 1854.
 operant conditioning, light intensity preferences, light, dark 1102.
 reproductive behavior, estrus, melengestrol acetate, monensin effects on 3353.
 rhythms, activity patterns, motor activity 3107.
 sexual behavior, estrus, estradiol-17 β , progesterone, plasma levels 3326.
 social behavior, adrenal cortex activity 1372.
 social behavior, dominance, leaders, grazing 1376.
 social hierarchy, dominance, dairies 1375.
 social structure, dominance, measuring techniques, methodology 3339.
 spatial distribution, social organization, interspecific relationships, dominance 1226.
 sucking behavior, rearing 3354.
 visual discrimination, shape 1893.
Caudate nucleus,
 lesions, effects on learning behavior, rats 2016.
Caudate putamen,
 6-hydroxydopamine lesions, food intake, water intake, rats 3195.
 kainic acid lesions, glutamic acid decarboxylase, substantia nigra, locomotor activity, rats 906.
 lesions, effects on maze learning, rats 1817.
 neurochemistry, catecholamine, schedule-induced behavior, Rattus rattus 841.
Caulolatilus microps,
 food preferences, feeding behavior, predation, USA, North Carolina Coast 3696.
Caves,
 escape behavior, geotaxis, Troglolophilus cavicola 2803.
Cebellia pygmaea,
 calling behavior, sound production (biological), localization 1186.
Cebus,
 learning behavior, reinforcement, delayed response, conditioned response 1599.
Cebus apella,
 auditory perception, auditory discrimination 3062.
 matching-to-sample, retention, delayed reinforcement 1708.
 matching-to-sample, shared attention, generalization decrement 2977.
 spatial discrimination learning, maze learning, delayed reinforcement 1795.
 visual discrimination learning, maze learning, delayed reinforcement 1796.
Cecidomyiidae,
 new records, cleptoparasitism, Araneae, USA, Florida 1415.
Cecropia concolor,
 seeds, feeding behavior, Thraupidae 2704.
Celestial cues,
 orientation, homing behavior, Epitescus fuscus 4064.
Cell density,
 effects on thermotaxis, Paramecium caudatum 1834.
Cell loss,
 hippocampus, trimethyltin effects on, activity patterns, rats 4316.
Cells,
 cellular mechanisms, circadian rhythms, endogenous stimuli, oscillators, nervous system, ions, cells, proteins 743.
 functional morphology, locomotor activity, Amoeba proteus 677.
Census,
 dominance, phenology, birds of prey, Bavaria 1229.
 migrations, birds of prey, weather, spring, Ciconia ciconia, Grus grus, Aquila pomarina/cingla, Aquila pomarina 1850.
Central gray,
 ESB, discrimination, rats 4261.
 ESB, intracranial self-stimulation, aversion learning, mice 2054.
 intracranial self-stimulation, approach behavior, escape behavior, rats 2051.
Central nervous system,
 acetylcholine receptors, phenylcyclidine effects on, motor activity, rats 4342.
 behavior function, noradrenaline, theories, reviews 1974.
 benzodiazepines receptors, diazepam binding, emotional behavior, rats 4209.
 brain proteins, conditioned response reflexes, rats 842.
 brain development, activity patterns, sulfanilic acid effects on, rats 4311.
 locomotor activity, endrin effects on, rats, hamsters 951.
 Mammalia, effects on neurotransmitters effects on 836.
 neurons, cortex (visual), visual stimuli, appetitive behavior, cats, rabbits 2008.
 organization, effects on flashing patterns, Photuris versicolor 825.
 reflexes, cyanide effects on, rats 1994.
 testosterone binding, social interactions, aggression, dominance, mice 1045.
 thermoregulation, hormone release, Rattus rattus 1042.
Centris,
 pollinators, foraging behavior, Panama 2652.
Centropge,
 mating behavior, spawning, larvae dispersal 2455.
Cephalorhynchus commersoni,
 geographical distribution, mating behavior, Kerguelen Is. 179.
Cephus grylle,
 breeding success, nesting behavior 1304.
 predation, feeding behavior, Pomatomus saltatrix 3688.
Ceramus capicola,
 reproductive behavior, life history, South Africa 444.
Ceramus lichtensteini,
 reproductive behavior, life history, South Africa 444.
Ceramus linearis,
 reproductive behavior, life history, South Africa 444.
Cercocoeus albigena johnstoni,
 behavior repertoire, description 3870.

- Cercopithecus aethiops**,
cholesterol serum levels, behavior correlation, sex differences 808
defensive behavior, alarm behavior, aggressive behavior, social rank, females 2596
drinking behavior, competition, social hierarchy, females 1232
social behavior, aggressive behavior, social hierarchy 1387
social behavior, learning behavior, feeding behavior 1382
- Cercopithecus aethiops (varietal)**,
territorial behavior, food availability, population density, Cameroon 91
- Cercopithecus cephus**,
activity patterns, diurnal variations, feeding behavior, social interactions 498
- Cercopithecus mitis**,
social behavior, grooming function 1388
- Cercopithecus pygmythrix**,
feeding behavior, food sources, *Acacia tortilis*, *Acacia xanthophloea* 1520
- Cercocebus thous**,
social behavior, feeding behavior, ontogeny 2917
vocalization 1183
- Cerebellum**,
ablation, effects on eyelid conditioning, memory, rabbits 4177
EEG, arousal, sleep, cats 2005
grasping effects on, monkeys 879
motor activity control, drug effects, mice 4173
motor activity control, halothane effects on, mice 3282
nucleotides levels, sleep and wakefulness, rats 770
pathways, intracranial self-stimulation acquisition, operant conditioning, rats 4262
Purkinje cells, vermal zones, neurophysiology, locomotion, cats 3168
role, classical conditioning, rabbits 1993
- Cerebral dominance**,
asymmetry, Corpus callosum, early experience 3132
asymmetry, early experience effects on 1949
asymmetry, phenylalanine, rats 3199
handedness, asymmetry, morphology, cortex, cats 796
handedness, *Macaca mulatta* 516
- Cerebrospinal fluid**,
meditation, stereotyped behavior, substance P, neurotransmitters, mice, rats 867
sampling, methodology, guinea pigs 1095
- Cerebrum**,
ablation, walking, activity, Deiters' neurons, cats 3046
ablation, walking, coordination, limbs, electromyographic activity, cats 3047
serotonin levels, drug effects, analgesics, rats 944
- Cerithidia decollata**,
tidal rhythm effects on activity patterns, South Africa, Durban Bay 745
- Cercocebus albigena**,
social behavior, grooming function 1388
- Cercocebus aethiops**,
sabbacus, social behavior, 5-hydroxytryptamine, tryptophan, biochemistry, blood 807
- Certhia familiaris**,
song, geographical variations 2301
temperature, effects on foraging behavior, winter 2715
- Cervidae**,
feeding behavior, food preferences, winter, Poland 3739
- Cervus dama**,
population structure, social organization, habitat, France, Alsace 3624
- Cervus elaphus**,
feeding behavior, sex differences, winter 2755
social behavior, mother-offspring interactions, dominance, play, social interactions 1369
- Cervus elaphus roosevelti**,
courtship, activity patterns, movements, geographical distribution, USA, California 2485
- Cervus nippon yezoensis**,
social organization, home range 2583
- Cervus nippon yezoensis**,
parturition behavior, mother-offspring interactions 1324
- Cesium**,
stereotyped behavior, open-field behavior, exploratory behavior, rats 1112
- Cetacea**,
vocalization behavior, sound production (biological), comparison, 5 species 1179
- Chaetodon aculeatus**,
foraging behavior, predatory behavior, diets, prey species diversity 2681
- Chaetodon capistratus**,
foraging behavior, predatory behavior, diets, prey species diversity 2681
- Chaetodontidae**,
social behavior, dominance, aggressive behavior 3616
- Chaetopterus**,
bioluminescence, physiology, nervous system 813
- Chaetura pelagica**,
nesting behavior, foraging behavior, environmental factors, brood rearing 2540
roosting behavior, environmental effects 476
- Chain schedule**,
acquisition, drug effects, antagonism, pigeons 3280
effects on responsiveness, pigeons 538
fixed interval schedule, choice, rats 3947
fixed interval schedule, electrical stimulation, fixed time schedule, operant response, monkeys 1714
preferences, signals, reinforcement, operant response, choice learning, pigeons 1671
reinforcement, behavioral contrast 3899
reinforcement schedules, serial learning, simultaneous conditioning, pigeons 1669
stimulus control, temporal discrimination learning, rats 4010
- Chalcodermus aeneus**,
predator-prey interactions, *Solenopsis invicta* 297
- Chalepoxenus muellerianus**,
colonial characteristics, social behavior, interspecific relationships, raiding behavior 2566
- Chama punctatus**,
brain, anatomy, correlation, feeding behavior 832
- Chauda commersonii**,
feeding behavior 1458
- Chaoborus punctipennis**,
predator-prey interactions, capture, efficiency, light effects, dark, Copepoda 301
- Chaoborus trivittatus**,
larvae, feeding behavior, predation, zooplankton, *Daphnia pulex* 1419
- Charadrii**,
feeding behavior, competition, resource utilization, seasonal variations, geographical variations, Peru 364
migrations, food availability 4051
- Charadriiformes**,
migrations, Iceland 652
- Charadrius montanus**,
nesting behavior, nest building, Canada 2462
- Charadrius morinellus**,
nesting behavior, nest building, incubation behavior 3553
- Chasmodes bosquianus**,
activity patterns, diel variations 2830
- Chauliognathus**,
food organisms, feeding behavior, *Hyla cinerea* 3680
- Chauliognathus pennsylvanicus**,
mate selection, competition effects on, interspecific relationships, *Vespidae* 135
populations, sexual behavior, mathematical models 140
- Cheliceræ**,
functional morphology, sexual dimorphism, mating behavior, breeding success, *Macrobrachium nipponense* 2385
- Chelonia mydas**,
food organisms, predation, *Promicrops lanceolatus* 2682
juveniles, prey, *Promicrops lanceolatus*, Tonga Islands 1460
movements, breeding, radio-tagging 4041
- Chelonidae**,
movements, aquatic environment, radio-tagging, methodology 4423
- Chemical communication**,
alarm pheromone, trail pheromone, role, sternal gland, *Aneuretus simoni* 1143
castor sacs, anal glands, *Castor canadensis* 3427
competitive behavior, interspecific relationships, *Octopus joubini*, *Gonodactylus bredini* 425
conspecific odors, recognition, social behavior, *Tamias striatus* 3425
conspecifics, stress, avoidance behavior, *Ambystoma tigrinum* 2282
food sources, foraging behavior, colonial characteristics, *Formica polyctena* 1442
intraspecific relationships, sandbathing, *Dipodomys merriami*, *Dipodomys microps* 2308
pheromones, agonistic behavior, *Procambarus clarkii* 1
pheromones, chemoreception, *Hyalomma dromedarii* 2279
pheromones, food sources, recruitment, *Tetramorium impurum* 1150
pheromones, *Insecta* 1148
pheromones, *Insecta* 2259
pheromones, social behavior, *Periplaneta americana* 2269
protective behavior, defense mechanisms, *Brachiura* 4
scent marking behavior, cats 3423
scent marking behavior, conspecific odors, preferences, *Meriones humanae* 3428
scent marking behavior, conspecific odors recognition, *Spermophilus columbianus* 3424
scent marking behavior, flowers, foraging behavior, *Bombus vosnesenskii* 1133
sex pheromone, (Z)-9-alkenols effects on inhibition, *Spodoptera litura* 29
sex pheromone, attractiveness, *Zygaena* 2264
sex pheromone, *Lygocoris communis* 3390
sex pheromone, mating behavior, *Tiphidae* 2427
sternal gland secretions, *Aneuretus simoni* 1146
synchronization, molting behavior, juveniles, *Macrobrachium rosenbergii* 2
trail pheromone, reviews, *Trigona sinuipes* 2265
trophallaxis, castes, colonial characteristics, *Apis mellifera mellifera* 2277
unit odors, stability, guinea-pigs 1180
vagina secretions, pheromones, *Pan troglodytes* 3439
- Chemical composition**,
endorphins, encephalins, effects on behavior 778
pheromones, *Apis mellifera* 8
- Chemical perception**,
attractants, effects on foraging behavior, pollinators, *Apis mellifera* 2635
conspecifics, role tongue, *Sceloporus jarrovi* 4105
egg laying, host plants, *Acrotopisus assectella* 133
- Chemical stimuli**,
amino acids, feeding behavior, *Hydra japonica* 3655
amino acids, swarming behavior, feeding behavior, *Eurytemora herdmanni*, *Acartia hudsonica* 3774
AMPA, substantia nigra, catalepsy, rats 795
androgens, effects on females scent marking behavior, exploratory behavior, rats 3572
chemotaxis, maltose, *Escherichia coli* 4030
chemotaxis, swimming behavior, *Bacillus subtilis* 4032
conspecific odors, courtship, vocalization, *Mus musculus* 1182
drug effects, avoidance behavior, memory, rats 974
effects on escape behavior, *Pecten ziczac* 816
effects on hoarding behavior, *Apis mellifera* 2792
exploratory behavior, tongue flicking, odors, *Crotalus* 4106
feeding behavior, amino acids, carbohydrates, *Uca pugilator* 267
feeding behavior, hemaphys, *Simulium venustum* 2649
flowers, anemotaxis, *Hadena bicruris*, *Delilephila elenor* 3008
food organisms, feeding behavior, *Phrynosoma maderae*, *Peromyscus brevicaudus* 3689
food plants, taste perception, food preferences, *Sciurus aberti*, *Pinus ponderosa* 392
host searching behavior, parasitoids, *Musca domestica*, *Muscidifurax raptor*, *Muscidifurax zaraptor*, *Spalangia cameroni*, *Spalangia endius* 3784
locomotor activity, functional morphology, *Amoeba proteus* 678
males urea, locomotor activity, neonates, mice 3593
maternal behavior, amniotic fluid, dogs 3595
migrations, reproductive behavior, imprinting, *Caretta caretta* 2906
morpholine, chemotaxis, *Salmo* 4044
odor thresholds, chemoreceptors, trigeminal nerve, rats 4116
odor thresholds, olfactory perception, rats 4111
odors, reinforcement, alternation learning, rats 3948
orientation behavior, disease transmission, *Schistosoma mansoni*, *Biomphalaria* 626
orientation, migrations, *Pisces* 3010
orientation, olfaction, *Pisces* 3074
pheromones, vision, effects on mating behavior, *Helothis zea* 2393
predatory behavior, *Crotalus viridis*, *Crotalus enyo* 3678
predatory behavior, prey capture, *Notiophilus biguttatus* 2640

Chemical stimuli, (continued)

- queens, effects on aggregation behavior, colonial characteristics, *Myrmica rubra* 1531.
role, mating behavior, courtship, *Chrysopa perla* 2401.
saliva, effects on social behavior development, *Meriones unguiculatus* 242.
substantia nigra, effects on stereotyped behavior, rats 3152.
swarming behavior, aggression, pheromones, workers, *Atta*, *Acromyrmex* 2558.
taste aversion learning, trimethylol, trimethylol, rats 3964.
trail following behavior, conspecifics, *Thamnophis* 1154.
urine, paternal effects, maternal behavior, *Onychomys torridus* 3594.

Chemokinesis,

- swimming, *Paramecium* 2993

Chemoreception,

- chemical communication, pheromones, *Hyalomma dromedarii* 2279.
communication, schooling behavior, *Teleostei* 2285.
conspecific odors recognition, juveniles, *Cichlasoma citrinellum* 2287.
dipropyl disulfide, oviposition attractancy, EAG responses, *Hylemya antiqua* 1286.
feeding behavior, anatomy, electrophysiological recording, *Phormia regina* 322.
flight activity, olfactory stimuli, atmospheric conditions, *Insecta* 2797.
food organisms detection, *Proteus anguinus*, *Necturus maculosus* 4107.
gauges, hypoxia, sleep and wakefulness, denervation, carotid sinus nerve, rats 4147.
gustatory stimuli, orientation, host plants, *Dendroctonus ponderosae* 3000.
nest mates, olfactory discrimination, odors, recognition, *Lasioglossum zephyrum* 1951.
pheromones, feeding behavior, spawning, *Clupea harengus pallasi* 1296.
predatory behavior, factors affecting, *Crotalus viridis* 733.
predatory behavior, genetic factors, *Thamnophis elegans* 646.
prey odors, food preferences, feeding behavior, *Homarus americanus* 2609.
prey odors, hunger effects on, feeding behavior, *Crotalus viridis*, *Crotalus enyo* 2659.
sex pheromone, deterrents, mating behavior, homosexuality, *Glossina morsitans*, *Musca domestica* 116.
sexual reproduction, *Blepharisma*, *Somali* Dem. Rep. 1235.
tongue, exploratory behavior, *Sceloporus jarrovi* 1912.
tongue flicking behavior, *Serpentes* 4104.
tongue, predatory behavior, *Crotalus enyo* 1444.
urine, testosterone, aggressive behavior, males, rats 1184.

Chemoreceptors,

- dopamine, drug effects, neuroleptics, grooming, mice 856.
egg laying, host plants, *Acrolepiopsis assectella* 133.
neurons, blocking, propranolol, effects on, sleep (paradoxical), rats 771.
opiate, drug effects, naloxone, food intake, rats 946.
sensilla, ultrastructure, role, feeding behavior, *Macrosteles fascifrons* 2642.
septum, dopamine drugs, stereotyped behavior, locomotor activity, cats 850.
taste perception, neurons, *Cyprinus* 924.
tonic immobility, drug effects, *Gallus gallus* 1124.
trigeminal nerve, odor thresholds, chemical stimuli, rats 4116.
wings, effects on feeding behavior, *Phormia regina* 1902.

Chemosterilization,

- males, mating behavior, competition, genetics, *Anopheles culicifacies* 1248.

Chemotactic response,

- motility, sugars, *Rhizobium leguminosarum* 3029.

Chemotaxis,

- anemotaxis, olfactory discrimination, *Alium* che, *Hylemya antiqua* 642.
attractants, morpholine, *Salmo* 4044.
attractants, *Skeletonema costatum*, *Flavobacterium*, *Pseudomonas* 2997.
chemical stimuli, maltose, *Escherichia coli* 4030.
chemical stimuli, swimming behavior, *Bacillus subtilis* 4032.
genetic factors, gene mapping, *Escherichia coli* 3842.
glycine, *HeLa* cells, *Salmonella typhimurium* 4031.
Halobacterium halobium 4033.
host plants orientation, sense organs, larvae, *Hylemya antiqua* 644.
hosts, population dynamics, development, life cycle, *Simuliidae*, *Mammalia* 645.
Hylemya antiqua, *Alium* che 634.
locomotor activity, substrate specificity, *Naegleria gruberi* 630.
males, sex pheromone, orienting response, *Periplaneta americana* 1843.
motility, *Escherichia coli* 628.
mutants, attractants, β -ketoadipate, *Pseudomonas putida* 629.
nucleotides, larvae, *Culex pipiens quinquefasciatus* 4101.
pheromones, attractancy, sex differences, *Trichinella spiralis* 1528.
pheromones, biochemical analysis, synergism, predator-prey interactions, *Thanasimus formicarius*, *Ips typographus*, *Thanasimus formicaris* 635.
predatory behavior, food organisms localization, *Crotalus viridis*, *Mus musculus* 1445.
role, gene che, association flagella locomotor activity, *Escherichia coli* 3843.
sex pheromones, flight, visual stimuli, *Grapholitha molesta*, *Heliothis virescens* 2005.
sugar, membrane potential, *Spirochaeta aurantia* 1833.
volatiles, *Alium* che, microorganisms, host preferences, synergism, *Hylemya antiqua*, *Fannia canicularis* 638.

Chenorhamphus grayi,

- feeding behavior, nests, habitat preferences, song, New Guinea 1566.

Chewing,

- displacement activity, nuphenazine decanoate side effects, rats 968.
wood, schedule-induced behavior, rats 3945.

Chickens,

- aggressive behavior, social behavior, ontogeny 3444.
amnesia, avoidance learning, β -adrenergic antagonists, juveniles 1979.
avoidance behavior, ontogeny, punishment, reinforcement 1720.
avoidance learning, pretraining, testosterone, short term memory, juveniles 1722.
brain function asymmetry, prenatal experience, light 3144.
cerebral dominance, asymmetry, early experience 3132.
p-chloroamphetamine effects on tonic immobility, activity patterns 2079.
color preferences, visual stimuli effects on, juveniles 1888.
defective mutant, wings, flight activity 3043.
discrimination learning, visual perception, species recognition, juveniles 1776.
drug effects, d-glutamine, avoidance behavior, amnesia, epilepsy, juveniles 2077.
drug effects, nisoxetine, fluoxetine, neurotransmitters, uptake, tonic immobility 936.
drug effects, tonic immobility 2241.
early experience, social environment deprivation, effects on social behavior, sexual behavior 2911.
egg laying, temperature effects, humidity, heat, food intake, feeding behavior 1597.
emotional behavior, selection effects on 501.

Chickens, (continued)

- fear, heart rate, rearing 4467.
feeding behavior, diel variations, energetics 3722.
feeding behavior, mouthparts, food intake, body weight 3341.
females, cleaning behavior, dust baths, uropygial gland ablation 784.
flight activity ontogeny 1873.
forebrain ablation, effects on oral behavior 3183.
handling, fear habituation 3342.
imprinting, biochemistry, lesions, hypernatruria 835.
juveniles, distress vocalization behavior, opiates effects on 785.
juveniles, feeding behavior, gustatory stimuli, vitamins deficiency, retinol 373.
juveniles, imprinting, social bonds 1367.
laying hens, diets, food preferences, nutrient requirements 1466.
locomotor activity, methodology 3337.
memory, avoidance learning, veratridine effects on 1816.
memory, learning behavior, testosterone effects on 3308.
morphine tonic immobility, drug effects, quipazine, fenfluramine, apomorphine 1980.
mother-offspring interactions, vocalization behavior, prenatal experience 3589.
norelevomethadyl acetate intrauterine exposure effects on open-field behavior 4302.
ontogeny, unconditioned response, auditory stimuli 2910.
open-field behavior, heritability, selection 2883.
open-field behavior, sex differences, emotional behavior 4462.
pecking behavior, strains, genetic variance, selection 3338.
predatory behavior, open-field behavior 1485.
rearing, reproductive behavior, reviews 4446.
sexual behavior, sex hormones effects on 2482.
sexual behavior, testosterone effects on, juveniles 3309.
sleep, inducers, prostaglandins, brain 925.
social behavior, agonistic behavior, antagonism, dominance, strains 2206.
social rank, egg production 4447.
social rank, feeding behavior, aggressive behavior, rearing 3343.
taste preferences, inheritance, genetic analysis 3847.
testosterone effects on visual discrimination learning, memory 2965.
tonic immobility, drug effects, age effects on 4485.
tonic immobility, imprinting, auditory stimuli 2242.
tonic immobility, serotonin, dopamine effects on 1122.
visual deprivation, polypeptides, stress, plasma corticosterone 1120.
vocalization behavior, denervation, extrinsic syringeal muscles, frequency control, juveniles 783.
vocalization behavior, distress, neonates 3406.
- Children,**
memory, operant response, delayed response, matching-to-sample, discriminative stimuli 1831.
- Chile Coast,**
feeding behavior, food preferences, diurnal variations, *Lissodelphis peronii* 393.
- Chilo suppressalis,**
emergence, fecundity, oviposition, environmental effects, Japan 1253.
mating behavior, circadian rhythms, seasonal variations 1264.
mating behavior, diel variations, photoperiods 1274.
mating behavior, light intensity, temperature effects, females calling behavior, males response 1287.
- Chionis mitor,**
foraging behavior, habitat utilization, food selection, prey 2711.
- Chironomidae,**
drift, environmental effects, Australia, A.C.T., Condor Creek 433.
feeding behavior, larvae, predation, eggs, ponds, *Ambystoma maculatum*, Canada, Quebec 320.
- Chiroptera,**
echolocation, predatory behavior, habitat utilization, feeding behavior, Australia, Queensland, Chillagoe 3740.
flight activity, echolocation, juveniles 1855.
predation, effects on feeding behavior, *Serpentes* 3679.
predation, effects on prey vocalization behavior, *Anura* 2280.
predation, defensive behavior, vocalization behavior, neurophysiology, *Cynura* 2806.
- Chirotophia caudata,**
mating behavior, lek, polygamy, social hierarchy 1313.
- Chilton stokesii,**
activity patterns, rhythms, homing behavior 744.
- Chloramphenicol,**
intrauterine exposure, effects on avoidance learning, rats 3230.
- p-Chloramphetamine,**
effects on fear conditioning, retention, rats 1827.
- Chlordiazepoxide,**
anidepressants, effects on avoidance behavior, mice 2080.
effects on anxiety, mechanisms, raphe nuclei, rats 4371.
effects on avoidance behavior, mice 2084.
effects on, conditioned reinforcement, operant response, *Saimiri* 2173.
effects on food preferences, novelty, rats 3283.
effects on food preferences, rats 4361.
effects on operant conditioning responsiveness, statistical analysis, rats 991.
effects on operant response maintenance, rats 1018.
effects on visual discrimination learning, rats 4354.
- Chlordimeform,**
effects on operant conditioning, rats 3239.
pesticides (organochlorine), effects on schedule-induced behavior, pigeons 3224.
taste aversion learning, rats 1724.
- Chlorides,**
stereotyped behavior, environmental factors, open-field behavior, exploratory behavior, rats 1112.
- p-Chloroamphetamine,**
drug effects, hypothermia, ejaculation, salivation, irritability, rats 2153.
effects on avoidance learning, rats 4389.
effects on tonic immobility, activity patterns, chickens 2079.
- Chloroococcus,**
food organisms, food preferences, *Poecilia reticulata* 335.
- Chlorocypha consuetia,**
mating behavior, courtship, display 2431.
- p-Chlorophenylalanine,**
drugs, effects on sleep regulation, rats 4144.
effects on 5-hydroxytryptamine, brain, aggression, *Saimiri* 2091.
- 1-(m-Chlorophenyl)piperazine,**
modulation, apomorphine aggressive behavior, rats 4369.

- Chlorpheniramine**,
intracranial self-stimulation, hypothalamus, rats 3220
- Chlorpromazine**,
effects on avoidance learning, escape behavior 931
effects on conditioned reinforcement, observing response, pigeons 3300
effects on escape behavior, shock, rats 2120
effects on learning behavior, rats 3235
effects on operant conditioning responsiveness, statistical analysis, rats 991
effects on taste aversion learning, rats 4338
effects on visual discrimination learning, rats 4354
intracranial chemical stimulation, reinforcement, potentiation, naloxone, rats 2001.
- Chloropsis liberianus**,
locomotor activity, juveniles, maternal behavior, Ivory Coast 2551.
- Choice**,
autoshaping, operant response, pigeons 3915,
chain schedule, fixed interval schedule, rats 3947
- Choice learning**,
chain schedule, preferences, signals, reinforcement, operant response, pigeons 1671,
conditioned response, stereotyped behavior, dogs 577
reinforcement optimization, pigeons 1721
- Cholecystokinin**,
ablation, vagus nerve, exploratory behavior, rats 3312
anterior, intracranial chemical stimulation, ventricles (cerebral), effects on,
avoidance behavior, rats 579
open field regulation, rats 3741
peptides, intracranial chemical stimulation, ventricle (lateral), effects on
satiety, sheep 2066
- Cholecystokinin octapeptide**,
effects on exploratory behavior, mice 4335
- Cholesterol**,
serum levels, behavior correlation, sex differences, *Cercopithecus aethiops* 808.
- Choline**,
aggression, neurophysiology, brain, mice 3162
levels, biosynthesis, hippocampus, striate cortex, avoidance learning, rats 4179
mediation, aggression, ESB, hypothalamus, rats 3214.
- Choline acetyltransferase**,
activity, hypothalamus, isolation effects on, *Meriones unguiculatus* 1918
open field behavior, exploratory behavior, estrus cycle, mice 1109
- Cholinergic mechanisms**,
role, predatory behavior, *Putorius furo* 4178.
- Cholinergic transmission**,
agonists, drug effects, pilocarpine, physical activity, cats 2155
- Cholepeus hoffmanni**,
locomotion, climbing, walking 3048
- Chondrobrax acutatus**,
polymorphism, bills, feeding behavior 2703.
- Choristocera famiferana**,
males, sex pheromone, flight activity 1266
- Chorthippus mollis**,
song variants, populations, hybrids 1140.
- Chromis caeruleus**,
visual discrimination, predators face recognition 3808.
- Chromis punctipinnis**,
movements, foraging behavior, water currents, zooplankton population density,
USA, California Coast 2670
- Chromola**,
effects on avoidance behavior, diets, *Anas rubripes* 2949
- Chronic administration**,
amphetamine, nucleus accumbens, locomotor activity, tolerance, rats 985
- Chronic effects**,
cadmium, aggressive behavior, rats 63
hashish, dominance, sexual behavior, mice 941,
levodopa-carbidopa, haloperidol behavior sensitivity, guinea-pigs 3289
neuroleptics, stereotyped behavior, rats 3258
phenylcyclidine, locomotor activity, age, juveniles, cats 1008
- Chronic exposure**,
amphetamine, depression, self-stimulation, substantia nigra, drug effects,
lithium, rats 1603,
apomorphine, effects on, stereotyped behavior, locomotor activity, brain
biosynthesis, catecholamine, rats 849,
haloperidol, sensitivity, dopamine, neuroleptics, grooming, mice 856
lead, food deprivation, effects on, locomotor activity, rats 1598
neurotransmitters, L-DOPA, benzerazide, drug effects, locomotor activity, mice
791
sex hormones, agonists, effects on, sexual behavior, males, rats 1046
- Chronology**,
pair bond, courtship, display, vocalization, *Aix sponsa* 1315.
- Chrysoeyon brachyurus**,
vocalization 1183.
- Chrysophilus pictus**,
approach behavior, avoidance behavior, novelty 2205.
- Chrysopa carnea**,
larvae, foraging behavior, predator-prey interactions, *Acyrtosiphon pisum* 1429.
- Chrysopa chil**,
reproductive behavior, calling behavior 2419.
- Chrysopa oculata**,
reproductive behavior, calling behavior 2419.
- Chrysopa perla**,
mating behavior, courtship 2401.
- Chrysopa rufilabris**,
predator-prey interactions, *Pseudoptilia* includes 293.
- Chrysopyrma major**,
feeding behavior, food organisms chemical stimuli, *Periureis brevicornis* 3689.
- Cicadetta sinuipennis**,
auditory communication, sound production (biological), song 1144.
- Cicadidae**,
sound production, diurnal variations, tropical environment 2267.
- Cichlasoma citrinellum**,
aggressive behavior, interspecific relationships, intraspecific relationships
3443.
chemoreception, conspecific odors recognition, juveniles 2287.
circadian rhythms, light effects, behavior, retina 755.
- Cichlosome nigrofasciatum**,
aggressive behavior, alcohol effects on 3223.
- Cicindela ocellata reticulata**,
escape behavior, avoidance behavior, heat, foraging behavior, USA, Texas 3790
- Cicindela willisii**,
burrowing behavior, defense mechanisms, prey attraction, USA, Arizona, Sulphur
Springs Valley 2802.
- Cicindelidae**,
prey capture efficiency, foraging behavior, *Colaptes auratus* 2702
- Ciconia ciconia**,
birds of prey, migrations, weather, spring 1850
- Cilia**,
functional morphology, locomotion, *Ciliata* 3031.
- Ciliata**,
food organisms, chemical stimuli, feeding behavior, *Uca pugnator* 267.
locomotion, functional morphology, *cilia* 3031.
- Ciliata mustella**,
behavior, emergence, environmental conditions, oxygen depletion 468.
- Cimetidine**,
effects on aggressive behavior, foot shock, rats 988.
- Cineclus cineclus**,
floods effects on feeding behavior efficiency 347
- Cineclus pallasi**,
spatial distribution, territorial behavior, winter 2356.
- Cinematography**,
startle response, *Carassius auratus*, electrophysiological recording 1914.
- Circadian rhythms**,
activity patterns, *Aotus trivirgatus*, *Rousettus aegyptiacus* 1930.
activity patterns, environmental effects, *Blatta orientalis* 4134.
activity patterns, *Helisoma trivolis* 3088.
activity patterns, locomotor activity, environmental effects, *Carduelis spinus*
1936.
activity patterns, *Noemacheilus barbatulus* 4136
activity patterns, physiology, *Periplaneta americana* 3095.
activity patterns, seasonal variations, *Carduelis spinus* 4137.
activity patterns, seasonal variations, *Pteromys volans* 759.
activity patterns, temperature effects on, *Phyllotomus discolor*, *Molossus ater*
3092.
activity patterns, tidal effects, *Pomatoschistus minutus*, British Isles,
Scotland, Norway, Oslofjord 754
activity patterns, toluene effects on, rats 1016.
avoidance behavior, phase shift effects on, benzodiazepine, mice 3103.
calling behavior, pheromone emission, *Pseudaletia unipuncta* 2276.
climate, environmental factors, *Mustela* 761.
diel variations, photoperiods, sexual behavior, oviposition, *Culex*
quinquefasciatus 1237
drinking behavior, activity patterns, hamsters 1940.
drug effects, α -bungarotoxin, suprachiasmatic nucleus, light effects, pineal
gland, enzymatic activity, rats 764.
effects on, aversion learning, rats 1941
endogenous stimuli, oscillators, nervous system, ions, cells, proteins, cellular
mechanisms 743
feeding behavior, rats 4140.
feeding behavior, suprachiasmatic nuclei ablation effects on, rats 4234.
feeding behavior, suprachiasmatic nucleus lesions, rats 3204
flight activity, lithium chloride, *Tapophos melanopogon* 4367
flight activity, photoperiod, *Culex pipiens quinquefasciatus* 4132.
food consumption, photoperiods effects on, rats 1513.
food intake, sucrose effects on, rats 3750
foraging behavior, *Atta insularis* 2654.
hatching, endogenous stimuli, *Uca pugnator* 1932.
hatching, *Transversotema patulae* 1931.
light effects, behavior, retina, *Cichlasoma citrinellum* 755.
locomotor activity, *Achatina fulica* 3091
locomotor activity, entrainment, photoperiod, *Pterostichus nigrita* 3098
locomotor activity, environmental effects, *Hemedeia thoracica*, New Zealand 3094.
locomotor activity, feedback models, light effects, temperature effects,
Hemedeia thoracica 751
locomotor activity, feeding behavior, *Bulinus africanus* 4135
locomotor activity, hormones, lesions, midbrain raphe nuclei, rats 904
locomotor activity, lutropin plasma levels, photoperiod, hamsters 3105.
locomotor activity, mutants, mice 3106.
locomotor activity, optic nerve, neurophysiology, *Bursatella leachi* plei 3089.
locomotor activity, pacemakers transplantation, *Achatina flavescens* 3096
locomotor activity, photoperiods, *Limax maximus*, *Limax flavus* 747.
locomotor activity, photoreceptors, *Alligator mississippiensis* 753.
locomotor activity, reproductive behavior, estrus, rats 3104.
locomotor activity, running, photoperiods effects on, *Periplaneta americana* 752
locomotor activity, sleep, DSIP effects on, rats 1962.
locomotor activity, temperature effects, *Hemedeia thoracica* 750.
locomotor activity, vertical migrations, *Anisogammarus annandalei*, *Anisogammarus*
jesoensis 3090.
mating behavior, adaptiveness, *Acrolepiopsis assectella* 2391
mating behavior, seasonal variations, *Chilo suppressalis* 1264.
motor activity, catecholamines, strains, rats 1586.
motor activity, thermoregulatory behavior, nutrient deficiency effects on, iron,
rats 521.
oscillation, mathematical models, *Drosophila* 1933.
oviposition, hatching, eggs, adult eclosion, *Atherigona soccata* 3093
oviposition, photoperiod, *Ostrinia nubilalis* 4133.
phase shift effects on avoidance learning performance, amnesia, rats 615.
photo period, physical activity, feeding, drinking, sheep 763.
photoperiod, locomotor activity, sexual reproduction, *Helix aspersa* 748.
photoperiod, photoreceptors, reviews, *Invertebrata* 4149.
photoperiods, drug effects, lithium, wheel running, rats 1938.
photoperiods, males, testicular recrudescence, *Carpodacus erythrinus* 1937.
photoperiods, physiology, environmental conditions, entrainment, seasonal
variations, *Coccus plumbeus* 1935.
photoreceptors, reviews, *Vertebrata* 4163.
pineal body pigments, protein-energy malnutrition, rats 758.
pineal organ, neurophysiology, *Pisces* 3099.
sexual behavior, *Amyeloid transiella* 2413.
sleep deprivation, neurotransmitters, binding, forebrain, rats 1942.
sleep, tryptophan deprivation, rats 3126.
swimming, activity patterns, photoperiods, juveniles, *Oncorhynchus gorbuscha* 756.
vocalization behavior, locomotor activity, testosterone effects on, *Coturnix*
japonica 3100.
wheel running, photoperiod effects on, mice 4139.

- Circadian rhythms, (continued)**
wheel running, photoreceptors, light effects, *Onychomys leucogaster*, *Spermophilus lateralis* 760
- Circannual rhythms**
activity patterns, locomotor activity, environmental effects, *Carduelis spinus* 1936
food consumption, metabolic rate, *Marmota flaviventris* 388.
photoperiod, locomotor activity, sexual reproduction, *Helix aspersa* 748
- Circling behavior**
phenobarbitone effects on, rats 4385.
- Circotettix rubula rubula**,
color matching, visual stimuli, substrate preferences, polymorphism 3051
- Circus cyaneus**,
predators, anti-predator behavior, mobbing, *Passeriformes* 3816.
- Circulatio borealis**,
visual perception, compound eyes, light intensity 3050
- Cisticola juncidis**,
song, alarm behavior, breeding 2306.
- Cistothorus palustris**,
aggressive behavior, effects on vocalization behavior, spatial distribution, *Agelaius phoeniceus* 3445.
- Citellus lateralis**,
intracranial chemical stimulation, hippocampus (dorsomedial),
thyrotropin-releasing hormone, arousal, physical activity 2063.
- Citellus pygmaeus**,
population density, aggressive behavior, home range, fecundity 3474.
- Citellus tridecemlineatus**,
hypothalamus electrical stimulation, hibernation, self-stimulation 923.
- Citharichthys stigmaceus**,
swimming behavior, activity patterns, environmental effects 1871.
- Clamator jacobinus**,
parasites, brood care, *Turdoides affinis* 2539.
- Clangula hyemalis**,
predation, aggressive behavior, *Larus argentatus* 2724.
- Classical conditioning**,
analgesia, mediation, nerves, hormones, rats 4160.
analgesia, shock, opioids, dorsolateral funiculus, rats 4212.
appetitive conditioning, ESB, rats 2942.
associative learning, motivation, nictitating membrane response conditioning, rats 1762.
autoshaping, CS, reinforcement, extinction, recovery, pigeons 537.
aversion learning, shock signals preferences 357.
blocking, rats 3937.
blood pressure, heart rate, monkeys 2946.
concurrent schedule 532.
conditioned response, age effects on, rabbits 2936.
conditioned response, hunger, sign-tracking behavior 2943.
CS, UCS, conditioned response, pigeons 3908.
dorsolateral pons lesions effects on, rabbits 4233.
effects on hippocampus, neurons activity, rats 868.
extinction, rats 1697.
fear conditioning, effects on heart rate, monkeys 2229.
fear conditionings, US, CS, rats 2186.
food aversion, rats 581.
food deprivation effects on, mice 550.
habituation, CS, UCS, rats 2926.
hippocampus lesions, rabbits 4249.
intracranial chemical stimulation, scopalamine, hippocampus, septum, rabbits 838.
latent inhibition, potentiation, rats 2941.
learning behavior, abnormal behaviors 3902.
learning, neurons adaptations, models 1971.
licking behavior, conditioned suppression, rats 2951.
motor neurons activity, rats 4201.
neurophysiology, conferences 2250.
nictitating membrane response conditioning, methodology, pigeons 2197.
operant conditioning, stimulus control, discrimination learning, pigeons 3921.
outtraining, extinction, *Carassius auratus* 530.
reinforcement schedules, partial reinforcement extinction effect, rats 1632.
reinforcement schedules, shock, rats 1761.
role, cerebellum, rabbits 1993.
role, drug tolerance, homeostasis, rats 2145.
role, foraging behavior, *Columba livia* 3723.
second-order schedule, pigeons 540.
septum activity, excitation, inhibition, rats 839.
stimuli, heart rate, rats 4119.
stress, analgesia, opiates, mice 4479.
temporal discrimination, rats 2939.
training learning, aversion learning, conditioned excitation, conditioned inhibition, dogs 1752.
transfer learning, reinforcement schedule, rats 554.
- Classification**,
vocalization behavior, statistical analysis, *Saimiri sciureus* 2315.
- Claudium perlatum**,
diets, food preferences, South Africa, Etosha National Park 3713.
- Cleaving behavior**,
bathing, *Phylloscopus trochilus* 2852.
commensalism, *Stenopodidae*, *Pisces* 1113.
dust baths, diurnal variations, domestic animals, *Gallus gallus* 4138.
dust baths, uropygial gland anatomy, females, chickens 784.
grooming, *Rhinolophus ferrumequinum* 4468.
sand, *Dipodidae* 492.
sandbathing, intraspecific relationships, chemical communication, *Dipodomys merriami*, *Dipodomys microps* 2308.
seasonal variations, *Aves* 2848.
symbiosis, *Atherinops affinis*, *Eschrichtius robustus* 1452.
symbiosis, *Atherinops affinis*, *Eschrichtius robustus*, Mexico, Baja California 421.
thermoregulatory behavior, *Sterna* 2847.
- Cleptoparasitism**,
avoidance behavior, interspecific relationships, *Anas americana*, *Anas strepera*,
Fulica americana 2850.
effects on nesting behavior, foraging behavior, *Agapostemon virescens*, *Nomada articulata* 1535.
evolution, *Ammophila aberti* 1539.
feeding behavior, age, *Pregata magnificens* 2729.
- Cleptoparasitism, (continued)**
feeding behavior, aggressive behavior, *Sula bassana*, *Phalacrocorax carbo*, British Isles, Strathclyde 3864.
foraging behavior, colonies, *Melipona rufiventris flavolineata* 2637.
Larus marinus, *Ardea herodias* 2695.
new records, *Araneae*, *Cecidomyiidae*, USA, Florida 1415.
predation, feeding behavior, *Argyrodes* 1416.
- Clethrionomys gapperi**,
activity patterns, weather effects on, Canada, Quebec 483.
aggressive behavior, intraspecific relationships, population regulation, Canada, Manitoba 1567.
feeding behavior, seasonal variations, diets, Canada, Ontario 2741.
habitat preferences, activity patterns, ecological distribution, forests 488.
- Clethrionomys glareolus**,
mating behavior, genotypes, population density 2483.
social interactions, aggressive behavior, avoidance behavior 2587.
spatial distribution, home range, abundance 2367.
- Clibanarius albidigitus**,
habitat selection, shells morphology, environmental factors 424.
- Clibanarius digueti**,
intraspecific relationships, aggregates, environmental factors, USA, California Gulf 80.
- Clibanarius longitarsus**,
feeding behavior, mouthparts, functional morphology 1408.
- Climate**,
environmental factors, activity patterns, burrowing behavior, *Bufo americanus*, Canada 1558.
environmental factors, circadian rhythms, *Mustela* 761.
environmental factors, food intake, water intake, feeding behavior, sheep 387.
grassland, grazing, sheep 410.
- Climate conditions**,
effects on migrations, *Nilaparvata lugens* 442.
- Climbing**,
apomorphine sensitivity, DFP effects on, mice 990.
behavior modification, punishment, rats 578.
drug effects, apomorphine, dopamine agonists, naloxone, chlornaltrexamine, mice 984.
locomotion, *Choleopus hoffmanni* 3048.
stereotyped behavior, apomorphine effects on, mice 3301.
trees, anti-predator behavior, *Marmota monax* 3827.
- Climocottus acuticeps**,
spawning, site selection, behavior, littoral zone, mortality, air, exposure, *Fucus distichus*, Canada, British Columbia Coast 155.
- Climocottus analis**,
habitat selection, intraspecific relationships, aggregation, intertidal environment 2831.
- Clones**,
feeding behavior, resource partitioning, *Poeciliopsis 2 monacha-lucida* 2679.
- Clozidine**,
chronic administration, apomorphine effects on aggressive behavior, rats 4369.
drug effects, avoidance behavior, locomotor activity, lesions, raphe nuclei, rats 970.
effects on food consumption, rats 3293.
effects on locomotor activity, mediation, postsynapse α 2-adrenergic, receptors, rats 4346.
effects on locomotor activity, rats 698.
intracranial self-stimulation, neurophysiology, rats 4273.
shock, foot shock, jumping, neurophysiology, rats 852.
stereotyped behavior, imipramine chronic administration effects on, rats 4333.
- Clozapine**,
drug effects, fixed interval schedule, stimulus-shock termination, *Saimiri* 2172.
drugs, response, rats 986.
effects on alcohol locomotor activity induction, mice 967.
intracranial self-stimulation, neurophysiology, rats 4273.
- Clupea benteincki**,
feeding behavior, food preferences, food availability, Chile Coast 344.
- Clupea harengus**,
feeding behavior, food preferences, zooplankton, larvae 3700.
- Clupea harengus pallasi**,
feeding behavior, spawning, chemoreception, pheromones 1296.
swimming behavior ontogeny 3044.
- Clypeaster rosaceus**,
feeding behavior, activity patterns, diurnal variations, Jamaica, Discovery Bay 3662.
- Cnaphalocrocis medialis**,
mating behavior, temperature effects 132.
- Cnidaria**,
food organisms, predation, *Coralliphila abbreviata*, *Coralliphila caribaea* 2624.
prey, *Coralliphila abbreviata*, *Coralliphila caribaea*, Discovery Bay, Jamaica 1403.
- Coastal environment**,
feeding behavior, diets, food availability, *Anonyx capensis* 2749.
- Cobitis taenia**,
filter feeders, feeding behavior, cycles 2680.
- Cocaine**,
drug effects, intracranial self-stimulation, reward, detection threshold, dissociation, *Rattus rattus* 958.
drug effects, locomotor activity, open-field behavior, rats 2165.
drug self-administration, fixed interval schedule, body weight, rats 2121.
drugs, discrimination, training, operant response, rats 1092.
drugs, effects on memory, matching-to-sample, pigeons 4283.
drugs, schedule-induced behavior, monkeys 1028.
effects on activity patterns, environmental conditions, rats 3221.
effects on taste aversion learning, rats 2101.
taste aversion learning, rats 1763.
- Coccinella californica**,
foraging behavior, hunger, abundance, predator-prey interactions, *Acyrtosiphon pisum* 1430.
larvae, foraging behavior, predatory behavior 1428.
- Coccinella trifasciata**,
larvae, foraging behavior, predatory behavior 1428.
- Coccinella undecimpunctata**,
larvae, foraging behavior, predatory behavior 1428.
- Coccinellidae**,
diets, feeding behavior 2644.

- Coccyzus minor**,
feeding behavior, food preferences, Anolis, Grenada 351
- Cochliomyia hominivorax**,
reproductive behavior, sex pheromone effects on 16
- Coccyzus**,
construction, maternal behavior, *Uloborus ferox* 3357
construction, silk, *Hyalophora cecropia* 3356
construction, water balance, *Pternohyla fodiens* 4461
- Codex**,
antagonists, drug effects, naltrexone, operant response, behavior maintenance, *Macaca mulatta* 1027
discriminative stimulus ability, monkeys 1021
drug effects, cerebral serotonin levels, rats 944
drug effects, operant response, behavior maintenance, *Macaca mulatta* 1023
- Coevolution**,
copulation, morphology 2411
- Coevolution**,
frugivores, fruits, seeds, dispersal 2597
hosts, nests parasites, *Cuculus canorus*, *Phoenicurus phoenicurus* 3814
- Coexistence**,
nesting behavior, *Ardea herodias*, *Phalacrocorax auritus*, USA, Montana 2461
- Cognition**,
maze learning, *Betta splendens* 3899
- Cognitive ability**,
albinism, genes, inbreeding, mice 1588
extrapolation, reinforcement schedules, patterns, food, rats 1677
mathematics, Pan troglodytes 2942
memory, role, limbic system, rats 2037
ontogeny, social environment, rearing, rats 3889
performance, iron deficiency, discrimination learning, rats 590
problem solving, dogs, *Canis lupus lycaon* 2979
problem solving, rats 4017
problem solving, role, hippocampus, rats 1805
sleep, reinforcement, learning behavior 768
trusomy, mice 3850
visual perception, hamsters 1890
- Colacium**,
attachment, behavior 673
- Colaptes auratus**,
foraging behavior, prey capture efficiency, *Cicindelidae* 2702
- Cold tolerance**,
winter survival, thermoregulatory behavior, *Alligator mississippiensis* 2819
- Coleodactylus amazonicus**,
feeding behavior, food preferences, diets 2661
- Coleoptera**,
kan selection, evolutionary genetics, behavioral genetics, altruism 3845
- Colura seychellensis**,
roosting behavior, Seychelles 4473
- Colias eurytheme**,
courtship, mate selection, females 123
- Colias philodice**,
courtship, mate selection, females 123
- Colias philodice eriphyle**,
host searching behavior, host plants, oviposition, host preferences 2441
- Colinus virginianus**,
cages, crowding, effects on food consumption 1482
- Colinus virginianus**,
heat transfer, hypothalamus, temperature effects, brain, thermoregulation 781
- Colisa chuna**,
territorial behavior, spawning behavior, nest building 3527
- Colinus striatus**,
population structure, social organization, Gabon 3617
- Collembola**,
food organisms, anti-predator behavior, *Notophilus biguttatus* 312
- Colletes cunicularius**,
mating behavior, sex pheromone role 2402
- Colliculus**,
anatomy, echolocation, predatory behavior, *Rhinolophus ferrumequinum* 801
lesions, effects on feeding behavior, locomotor activity 3202
lesions, effects on lateral posterior nucleus anatomy, hamsters 846
lesions, nucleus intercollicularis, testosterone, implants, courtship, *Streptopelia risoria* 1317
lesions, orientation, rats 3203
neurons, anatomy, mice 789
neurophysiology, conditioned response, auditory stimuli, rats 853
role, visual perception, monkeys 3061
- Collocalia esculenta**,
diets, feeding behavior 2708
- Colobus angolensis**,
diets, biochemical characteristics 2768
- Colobus badius rufonitratus**,
feeding behavior, diets, phenology, food availability 2765
- Colobus badius**,
social behavior, grooming function 1388
- Colobus badius rufonitratus**,
activity patterns, time budgeting, temporal variations, feeding behavior, resting behavior, Kenya, Tana R. 517
ranging behavior, diets, Kenya 1576
- Colomys goslingi**,
predatory behavior, diets, food preferences, Africa 2742
- Colony characteristics**,
aggregation behavior, queens chemical stimuli effects on, *Myrmica rubra* 1531
castes, social behavior, *Lasiosiglossus zephyrum* 2562
castes, social behavior, *Lasiosiglossus zephyrum* 2567
communication, vibratory stimuli, *Vespula vulgaris*, *Vespula maculifrons* 2253
defense mechanisms, sound production (biological), nests, *Synoea virginea* 1554
factors affecting male abundance, *Myrmica* 1413
feeding, nesting behavior, *Gelochelidon nilotica* 3810
foraging behavior, chemical communication, food sources, *Formica polyctena* 1442
foraging behavior, feeding behavior, *Camponotus vagus* 1412
foraging behavior, workers, fungus gardens, *Macrotermes michaelsoni* 1592
interspecific relationships, webs construction, *Dendromyrmex charifesi*,
Dendromyrmex fabricii 1534
interspecific relationships, aggression, castes, *Monomorium pharaonis* 1192
larvae (feeding, workers, *Bombus terrestris*, *Bombus terrestris* 308
life cycle, aggressive behavior, reproductive behavior, *Enophora bistrata* 214
- Colonial characteristics, (continued)**
mate selection, copulation, *Pogonomyrmex californicus* 3513
mating behavior, population genetics, *Lasius sakagami* 1242
nest building, *Synoea sunnana* 2783
nesting behavior, brood care, predation effects on, *Lepomis macrochirus* 2453
nesting behavior, division of labor, *Melipona favosa favosa* 2521
nesting behavior, evolution, *Megachile rubi*, *Megachile texana* 2420
nesting behavior, life history, *Bembix inyoensis* 2519
nesting behavior, movements, *Tapinoma sessile*, *Formica subsericea* 2436
nesting behavior, social behavior, *Xylocopa pubescens* 2568
nesting behavior, territorial behavior, breeding success, population density, *Larus marinus* 3585
nesting behavior, workers, *Polistes chinensis* 1532
nests incompatibility, recognition pheromones, *Pseudomyrmex ferrugineus* 3380
nutrients effects on feeding behavior, *Solenopsis invicta* 1411
polymorphism, behavior, activity patterns, larvae, *Malacosoma americanum* 3794
queens pheromones effects on castes, social behavior, *Apis mellifera* 1363
recruitment, auditory communication, *Larus bulleri* 2289
social behavior, genetic relationship, measuring techniques, *Insecta* 3838
social behavior, interspecific relationships, raiding behavior, *Chalepoxenus muellerianus* 2566
social behavior, queens, workers, *Apis mellifera* 1217
social organization, activity patterns, *Mallos gregalis* 3608
social organization, *Lasiosiglossus zephyrum* 2560
swarming behavior, queens pheromones effects on, *Apis mellifera* 217
trophallaxis, chemical communication, castes, *Apis mellifera mellifera* 2277
vocalization behavior, territorial behavior, *Arctocephalus australis* 2901
workers mating behavior, queens effects on, *Lasiosiglossus zephyrum* 1240
- Colonies**,
activity patterns, larvae, *Malacosoma americanum* 2793
adaptiveness, *Cynomyia leucurus*, *Cynomyia ludoviciana* 3711
aggressive behavior, interspecific relationships, intraspecific relationships, *Formica lugubris*, *Formica cunicularia* 2317
breeding, mating behavior, sexual selection, *Acutis macularia* 3536
cleptoparasitism, foraging behavior, *Melipona rufiventris flavolineata* 2657
feeding behavior, intraspecific relationships, communication, *Aves* 1166
feeding behavior, *Macrotermes michaelsoni*, Kenya 1421
feeding behavior, *Macrotermes michaelsoni*, Kenya 1422
food organisms, predation, *Megaponera foetens*, *Macrotermes* 1393
foraging behavior, activity patterns, males, *Plebeia dorylana* 3677
foraging behavior, competition, spatial distribution, *Pogonomyrmex badius* 1424
foraging behavior, *Pogonomyrmex owyhee* 2646
formation, territorial behavior, breeding, *Larus ridibundus* 3470
habitat preferences, breeding success, *Rynchops niger*, USA, New Jersey, Barnegat Bay 2464
habitat utilization, foraging behavior, *Larus bulleri* 3708
Myotis lucifugus, predation, *Otus asio* 3717
nest building, *Apicitermes lamani* 2404
nest building, social behavior, *Reutocitermes lucifugus* 2557
nesting behavior, breeding success, competition, *Ardeidae*, France, Camargue 1306
nesting behavior, habitat selection, environmental factors, *Larus dominicanus*, South Africa 1302
nesting behavior, site selection, flight activity, *Vespula consobrina* 3610
nesting, reproduction, *Pelecanus occidentalis* 2531
parental behavior, parent-offspring interactions, *Larus argentatus* 3590
population levels, emergence, effects on, predatory behavior, *Polistes chinensis* antennalis 1434
population regulation, cannibalism, queens, *Hymenoptera* 220
social behavior, altruism, aggressive behavior, *Larus* 2575
social behavior, dominance, castes, *Bombus terrestris* 2371
social behavior, imprinting, attachment, *Vespa orientalis* 216
social behavior, sanitation, excretory products distribution, *Mallos gregalis* 1359
social organization, spatial distribution, *Merops bullockoides* 3472
territorial behavior, *Larus ridibundus* 3469
- Colonization**,
dispersal, habitat selection, population density, intraspecific relationships, *Promyrmex maniculatus*, Canada, British Columbia, Mandarte I. 90
host plants, aggregation, sex pheromone biosynthesis, *Ips paraconfusus* 1149
light effects, crop protection barriers, behavior, *Myzus persicae* 1410
- Color**,
behavioral responses, discrimination learning, *Eledone cirrhosa*, *Octopus vulgaris*, *Eledone moschata* 3
discrimination learning, *Hymenoptera* 2960
discrimination learning, visual discrimination, *Sturnus vulgaris* 2966
feathers, age, mate selection, feral populations, pigeons 173
feathers, plumage badge, dominance, social rank, *Zonotrichia querula* 94
go/no-go discrimination learning, cortex (prefrontal) neurons activity, monkeys 4210
orientation, visual perception, *Tnalaeudes vaporariorum* 4079
potentiation, overshadowing, odors, *Apis mellifera* 2962
preferences, intraspecific relationships, *Apis platyrhynchos* 716
preferences, visual stimuli effects on, juveniles, chicks 1888
preferential behavior, genetics, visual perception, juveniles, *Coturnix coturnix japonica* 1889
preferential behavior, phenotypes, pleiotropy, genetics, *Coturnix coturnix japonica* 1584
social behavior, sex reversal, social behavior, females, *Anthias squamipinnis* 337
transfer learning, matching-to-sample, pigeons 2967
visual discrimination, *Apis mellifera* 1885
visual discrimination learning, *Apis mellifera adansonii*, *Melipona quadrifasciata anthidroides*, *Melipona rufiventris* 2961
visual stimuli, effects on cortex (inferotemporal) neurons response, monkeys 728
visual stimuli, light, vision, adaptations 701
visual stimuli, reward, reinforcement, patterning, *Carassius auratus* 1646
- Color blindness**,
visual perception, *Scorbridae*, *Istiophoridae* 3053
- Coloration**,
adaptiveness, visual communication 700
aggressive behavior, mimicry, *Saitis piscinarum* 2798
crypsis, visual stimuli, *Platycephalus arenarius* 467
defensive behavior, activity patterns, *Silyoides silyoides* 2319
dominance, agonistic behavior, *Copeperca kawane* 3483
eye, visual communication, *Aves* 3409
leg bands, attractancy, mate selection, *Poephia guttata* 4086

- Coloration, (continued)**
 role, thermoregulation, *Brachystola magna* 1557
- Colosiethus**
 feeding behavior, food preferences, predators 328.
- Coldidium coloda**
 food organisms, predator-prey interactions, feeding behavior, *Actinophrys sol* 1400
- Colubus badius**
 vocalization behavior, phylogeny, paleoecology, geographical distribution 2313.
- Columba**
 aversion learning, interocular transfer, CS 717
 flocking behavior, leadership 3621.
 homing behavior, orientation, environmental factors, olfactory stimuli 1852.
 pimozide effects on discrimination learning 934.
 visual stimuli, stimulus control, conditioned suppression 718.
- Columba livia**
 cleaning behavior, seasonal variations 2848.
 corticotropin modulation, stereotyped behavior, feeding behavior, yawning behavior 4402.
 foraging behavior, role, associative learning, classical conditioning 3723.
 genetic variance, heredity, visual perception, activity patterns 3846.
 habitat preferences, nest building, urban environment 174.
 population structure, assortative mating, mate selection, cross-breeding 3538.
 posture, contralateral rotation, nucleus tegmenti pedunculo-pontinus, analogs, substantia nigra 4152.
- Columba palumbus**
 cleaning behavior, seasonal variations 2848
 nesting behavior, habitat preferences 2529.
- Comb**
 construction, sheltering behavior, Hymenoptera 452.
- Comfort behavior**
 cleaning behavior, Dipodidae 492.
 operant activity, excitation, 4-aminopyridine effects on, horses 2093.
- Commensalism**
 cleaning behavior, Stenopodidae, Pisces 1113.
 foraging behavior, *Dryocopus pileatus*, *Picoides villosus* 2727.
 interspecific relationships, feeding behavior, *Aves* 2709.
- Communal breeding**
 breeding behavior, infanticide, *Apelocoma ultramarina*, *Crotaphaga ani* 167.
- Communication**
 alarm behavior, foot slapping, *Fulica* 2297.
 antennae, trophallaxis, information theory, *Myrmica rubra* 2275.
 chemoreception, schooling behavior, *Teleostei* 2285.
 colonial characteristics, vibratory stimuli, *Vespula vulgaris*, *Vespula maculifrons* 2253.
 colonies, feeding behavior, intraspecific relationships, *Aves* 1166.
 conspecifics, discrimination learning, stimulus control, pigeons 1653.
 disruption, synthetic sex pheromone, *Grapholita molesta* 9.
 electric organs, social behavior, electric organs, sexual dimorphism, *Pollimyrus* 2286.
 leaves vibrations, *Cupienius salei* 1128.
 magnetic fields receptors, *Apis mellifera* 911.
 mating behavior, sexual behavior, *Oenanthis isabellina* 3544.
 mother-offspring interactions, ultrasound, mice 2552.
 posture, *Canis familiaris* 3346.
 reproductive isolation, sympatric populations, *Rodentia* 3429.
 social behavior, alarm behavior, defensive behavior, nests, *Synoecca surinama* 2254.
 social behavior, ESB, *Saimiri* 2060.
 social interactions, hormones, pheromones, reproductive behavior, conferences 4499.
 social interactions, Vespertilionidae 48.
 sound production, stridulation, acoustics, *Coxixidae* 3381.
 symbols, language, *Pan troglodytes* 50.
 territorial behavior, habitat selection, *Labridomidae* filamentosus, Barbados 466.
 vibratory stimuli, surface water, aquatic animals, reviews, *Gerridae* 2271.
 vocalization behavior, denervation, extrinsic syringeal muscles, frequency control, juveniles, chickens 783.
 vocalization behavior, sound production (biological), *Delphinidae* 45.
- Communication systems**
 evolution, effects on size distribution, *Halictidae*, *Apidae* 20.
- Communities**
 overwintering behavior, nesting, *Microtus xanthognathus*, USA, Alaska 1570.
- Community composition**
 aggressive behavior, interspecific relationships, habitat, *Parcoblatta* 2812.
- Comparative studies**
 activity patterns, diurnal variations, *Crociuridae* 494.
 feeding behavior, food composition, *Meliphagidae*, New Zealand 403.
 feeding behavior, strains, host plants, *Nephrolepis ciniceps* 1439.
 feeding behavior, substrate preferences, environmental factors, *Parus carolinensis*, *Sitta carolinensis*, *Parus bicolor*, *Picoides pubescens* 367.
 food attractants attractancy, sex differences, *Hylemya* 11.
 food preferences, seeds, *Cardinalis cardinalis*, *Spizella pusilla* 358.
 host plants, *Rosa carolina* predation, *Misumena vatia* 273.
 migrations, distribution, *Coregonus artedii*, *Coregonus clupeaformis*, Canada, James Bay 648.
 nesting behavior, site selection, environmental factors, *Buteo platypterus*, *Buteo lineatus*, *Buteo jamaicensis*, *Accipiter cooperii*, USA, Appalachian Mts. 474.
 ontogeny, behavior, *Sciuridae* 520.
 reproductive behavior, photoperiods, egg laying, *Lagopus lagopus lagopus*, *Lagopus lagopus scoticus* 178.
 visual perception, man, *Macaca mulatta* 723.
- Competition**
 agonistic behavior, social structure, social hierarchy, *Presbytis entellus* 2595.
 breeding success, nesting behavior, artificial substrates effects on, *Corvus monedula* 2460.
 population, mooning behavior, *Lygaeus equestris* 1290.
 population, social hierarchy, rats 3562.
 drinking behavior, social hierarchy, females, *Ceropithicus aethiops* 1232.
 effects on breeding success, *Parus caeruleus*, *Parus major* 1307.
 effects on workers egg laying, *Bombus terrestris* 125.
 feeding behavior, resource utilization, seasonal variations, geographical variations, *Charadrii*, Peru 364.
 feeding behavior, *Trigona*, *Phaeothronis superciliosus*, Costa Rica 1522.
 feeding, *Formicidae*, Turkey 2658.
 feeding, vocalization behavior, auditory communication, juveniles, *Cuculus canorus* 3815.
 females, mating behavior, courtship, *Anabrus simplex* 1288.
 fertility, diapause, males, *Anthonomus grandis grandis* 1269.
 food availability, migrations, *Charadrii* 4051.
 food availability, social behavior, dominance, *Icterus nebulosus* 2373.
 food availability, territorial behavior, *Avahi langeri* 92.
 instars, *Popillia japonica*, intraspecific relationships, population density 1526.
 interference, soil-dropping behavior, *Tetramorium caespitum*, *Nomia melanderi* 2805.
 interspecific relationships, aggressive behavior, *Vireo olivaceus*, *Vireo philadelphicus* 2324.
 interspecific relationships, effects on mate selection, females, *Chaullionathus pennsylvanicus* 135.
 intraspecific relationships, dominance, habitat selection, *Parus major* 3813.
 intraspecific relationships, sheltering behavior, *Setonix brachyurus* 2857.
 intraspecific relationships, zonation, body size, *Littorina unifasciata* 1527.
 larvae food sources, *Musca autumnalis* 448.
 males, adaptations, morphology, competitive behavior, *Podischnus agenor* 2781.
 males, mate selection, *Rana sylvatica* 151.
 mating behavior, breeding success, polygyny, *Agelaius phoeniceus* 3539.
 mating behavior, *Caloteran discrepans* 1255.
 mating behavior, chemostertilization, males, genetics, *Anopheles culicifacies* 1248.
 mating behavior, copulation, social behavior, rats 3578.
 mating behavior, radiation effects on, males, *Culex tarsalis* 145.
 parasites, population density, oviposition, host selection, *Biostera longicaudatus* 1545.
 parasitoids, population density effects on host searching behavior, *Venturia canescens* 1556.
 population density, breeding success, *Ardeidae*, France, Camargue 1306.
 predators, feeding behavior, food selection, prey size, *Sorex araneus* 399.
 reproductive behavior, *Setophaga ruticilla*, *Empidonax minimus* 513.
 reproductive effort, weaning, age, population density, *Mirounga angustirostris* 2484.
 reproductive isolation, strains, population density, *Drosophila melanogaster* 225.
 siblings, parental behavior, hatching, *Aechmophorus occidentalis* 2526.
 social rank, *Presbytis entellus* 98.
 spatial distribution, feeding behavior, *Salvelinus fontinalis*, *Salmo trutta*, USA, Michigan 2826.
 spatial distribution, foraging behavior, colonies, *Pogonomyrmex badius* 1424.
 sympatric populations, foraging behavior, resource partitioning, *Andropodus latirostris*, *Bleda eximia* 2687.
 territorial behavior, food availability, *Phylloscopus trochiloides*, India 87.
 territorial behavior, habitat utilization, home range, *Tamias striatus* 1223.
 territorial behavior, mathematical models 2344.
- Competitive behavior**
 activity patterns, *Salmo trutta* 695.
 avoidance learning, chemical communication, *Octopus joubini*, *Gonodactylus bredini* 425.
 cooperation, kin selection, *Panthera leo* 3829.
 morphology, adaptations, males, competition, *Podischnus agenor* 2781.
 open-field behavior, escape behavior, habituation, *Meriones unguiculatus* 1633.
 social behavior, conferences, *Insecta* 2248.
- Competitiveness**
 male sterility, statistical analysis, variance, *Insecta* 2194.
- Complexity**
 discrimination learning CS, effects on stress, cats 552.
 song, vocalization behavior, learning behavior, geographical variations, *Troglodytes troglodytes* 42.
- Components**
 sex pheromone, attractancy, *Heliothis zea* 1151.
 sex pheromone, effects on males flight, *Spodoptera litura* 25.
- Compound conditioning**
 interstimulus interval, blocking, pigeons 3920.
- Compound eyes**
 light sensitivity, light traps, *Spodoptera exigua*, *Spodoptera frugiperda* 712.
 photoperiods, effects on locomotor activity, running, circadian rhythms, *Periplaneta americana* 752.
 photoreceptors, phototaxis, *Drosophila* 1884.
 visual perception, light intensity, *Cirolana borealis* 3050.
 visual stimuli, optomotor response, flight activity, *Apis mellifera* 3034.
- Compound schedules**
 configurations, spontaneous alternation, rats 1685.
- Computer applications**
 activity patterns, measuring techniques, data acquisition, data processing, microcomputers 3333.
 data acquisition 2190.
 data acquisition, maternal behavior, mice 1094.
 measuring techniques, neurons activity, behavior 4419.
 song, acoustic communication, *Cystosoma saundersi* 24.
- Concept learning**
 matching-to-sample, oddity discrimination learning, transfer learning, pigeons 4013.
 mathematics, proportion, number, *Pan troglodytes* 1804.
 transfer learning, pairing, language, *Pan troglodytes* 603.
- Concurrent chain schedule**
 operant response, pigeons 3917.
- Concurrent schedule**
 classical conditioning 532.
 conditioned reinforcement, stimuli duration, pigeons 1773.
 discriminative stimuli, variable interval schedule, operant response, response matching, stimulus control, pigeons 1673.
 variable time schedule, matching, fixed-ratio change-over, pigeons 1652.
- Conditioned excitation**
 transfer learning, classical conditioning, dogs 1752.
- Conditioned inhibition**
 associative learning, US preexposure phenomenon, shock 1638.
 autoshaping, classical conditioning, transfer learning, pigeons 2931.
 autoshaping, pigeons 564.
 fear, shock, rats 3980.
 transfer learning, classical conditioning, dogs 1752.
- Conditioned reinforcement**
 amphetamines, chloridazepoxide, effects on, *Saimiri* 2173.
 observing response, chlorpromazine effects on, pigeons 3300.
 operant conditioning, blocking, rats 3944.

Conditioned reinforcement, (continued)

- operant response, operant conditioning, taste aversion, rats 546.
 potentiation, overshadowing, odors, color, *Apis mellifera* 2962
 schedule, stimuli effects on conditioned response, pigeons 1663
 stimuli duration, concurrent schedule, pigeons 1773.
 stimuli, information content, pigeons 3913
- Conditioned response,**
 auditory stimuli, cortex (auditory) ablation, rats 3173
 aversion learning, social interactions, *Meriones unguiculatus* 576
 avoidance behavior, drug effects, tetrahydrocannabinol, *Rattus rattus* 965.
 avoidance learning, latency, rats 1731
 choice learning, stereotyped behavior, dogs 577
 classical conditioning, age effects on, rabbits 2936
 classical conditioning, CS, UCS, pigeons 3908
 colliculus, auditory stimuli, neurophysiology, rats 853
 conditioned reinforcement, schedule effects on, conditioned reinforcement 1663
 delayed response, reinforcement, learning behavior, *Cebus* 1599
 discrimination learning, isomers, opioids, rats 2139
 drinking behavior, measuring techniques, rats 548
 drinking behavior, rats 2938
 drug effects, benzodiazepines 2067
 electric currents, threshold sensitivity, *Carassius auratus*, *Phoxinus phoxinus*,
Leuciscus leuciscus 3080
 feeding behavior, defensive behavior, lesions, *substantia nigra*, cats 2019
 fixed interval schedule, drug effects, phenothiazines, pigeons 2076
 formation, CS, UCS 2928
 hippocampus, electrical stimulation, dogs 922.
 hunger, sign-tracking behavior, classical conditioning, rats 2943
 locomotor activity, neurophysiology, globus pallidus, striate cortex, rabbits
 3172.
 matching, reinforcement schedules, rats 1695
 maze learning, preservation, pentobarbital effects on, rats 2106
 multiple schedule, drug effects, rats 2124
 neurophysiology, cortex, EEG, dogs 858
 olfactory stimuli, amines effects on, brain, *Apis mellifera* 3117
 reflexes, memory, cortex (visual) proteins, rats 842
 reflexes, prenatals, hypoxia, rats 1674
 reinforcement schedules, matching, rats 1757
 reinforcement schedules, multiple schedule, pigeons 1758
 reinforcement schedules, multiple schedule, pigeons 1759
 reversal learning, memory, forgetting, pigeons 1814
 self-punitive behavior, drug effects, methylphenidate, extinction, *Rattus rattus*
 964.
 shock, burrowing behavior, defensive behavior, prepressure, strains, rats 3977
 taste aversion, age, sex differences, acquisition, retention, rats 2955
 taste aversion, extinction, subdiaphragmatic vagus, rats 4154
 taste aversion, food intake, triglycides infusion, satiety, rats 3759
 taste aversion learning, interference, rats 1765
 taste aversion, retention, lesions, strial terminalis, cortex (gustatory), rats
 2021
 taste aversion, saccharin, drug effects, bombesin, rats 977
 taste aversion, taste preferences, intracranial self-stimulation, lithium
 chloride, rats 4115
 taste preferences, drug effects, pimozide, rats 2147
 visual stimuli, recognition, visual discrimination learning, dogs 596
- Conditioned suppression,**
 autoshaping, time allocation, rats 1689
 drug effects, water lick paradigm, methodology, rats 3286
 electric fields perception, pigeons 1915
 electric fields perception, pigeons 1916.
 external stimuli, reinforcement, associative learning 1641
 licking behavior, classical conditioning, rats 2951
 shock, apomorphine, diazepam effects on, rats 4392
 signals, licking behavior, rats 1687
 visual stimuli, stimulus control, *Columba* 718
- Conditioning,**
 associative learning, reviews 3901
 auditory stimuli, visual stimuli, contingency, man 1713
 aversion, instruments, measuring techniques, cats 2199
 avoidance behavior, memory, amnesia, drugs, apomorphine, rats 981
 cortex (visual), electrical properties, rats 1987
 defensive behavior, burying behavior, contextual control, rats 3929
 discrimination learning, vocalization behavior, operant response, monkeys 1799
 discrimination, vocalization behavior, social behavior, lesions, cortex
 (cingulate), *Macaca mulatta* 804
 dopaminergic cell, *substantia nigra*, tegmentum, brain 2010
 drug effects, morphine, locomotion physical activity, rats 950.
 fear, UCS, shock, adaptations, rats 569.
 food selection, pretraining, aversion learning, visual discrimination, rats 1780.
 gentling, aggressive behavior, mouse killing, lesions, rats 2015
 intracranial reinforcement, morphine, mechanisms, rats 4378
 latency, drug tolerance, morphine, rats 2159
 learning, autoshaping, orienting response, reviews 3900.
 learning, conferences 2249
 memory, hedonic response, rats 4022.
 neurophysiology, neurons, cats 809.
 neurophysiology, septum, hippocampus 3130.
 olfactory stimuli, olfactory bulb EEG, rabbits 4188
 phenotypes, central excitatory state, hybrids, genetics, *Phormia regina* 2881.
 pretraining, avoidance learning, testosterone, short term memory, juveniles,
 chickens 1722.
 reactivation, memory, aversion learning, rats 614.
 reflexes, effects on RNA biosynthesis, DNA biosynthesis, limbic system, rabbits
 786.
 reflexes, rats 3940
 reinforcement, conspecific odors, rats 4122.
 reinforcement schedules, extinction, rats 3896
 reinforcement schedules, intertrial interval, extinction, rats 3895
 taste aversion, drug effects, morphine, lesions, periaqueductal grey area, rats
 3186.
 taste aversion learning, reinforcement schedules, rats 3953.
 visual perception, visual preferences, *Aceta domestica* 4102.
- Conferences,**
 communication, social interactions, hormones, pheromones, reproductive behavior
 4499.
 competitive behavior, social behavior, *Insecta* 2248.

Conferences, (continued)

- conditioning, learning, drug effects, auditory perception 2249
 drug effects, behavioral teratology 3375.
 ethology 4500
 feeding behavior, neuroendocrine system 4498
 neurophysiology, classical conditioning 2250.
- Configurations,**
 spontaneous alternation, compound schedules, rats 1685
- Conflict behavior,**
 buspirone, rats, monkeys 3259
 cannabidiol, diazepam effects on, rats 4368
 drug effects, conditioned suppression, water lick paradigm, methodology, rats
 3286.
 reinforcement, ESB, intracranial self-stimulation, reinforcement, rats 4266.
- Connochaetes taurinus,**
 grazing, food availability, feeding behavior, physiology 2739.
- Conservation,**
 behavior, Primates, Thailand 496.
- Conspecific odors,**
 chemical stimuli, courtship, vocalization, *Mus musculus* 1182
 olfactory discrimination, *Microtus agrestis* 4113
 preferences, scent marking behavior, chemical communication, *Meriones hurrianus*
 3428.
 preferences, 6-hydroxydopamine effects on, rats 329.
 recognition, chemical communication, social behavior, *Tamias striatus* 3425.
 recognition, chemoreception, juveniles, *Cichlasoma citrinellum* 2287.
 recognition, scent marking behavior, chemical communication, *Spermophilus*
columbianus 3424.
 sexual behavior, effects on endocrine system, rats 4411.
- Conspecifics,**
 aggressive behavior, sexual receptivity, activity, sexual behavior, males, mice
 1197.
 attraction, social behavior, mobility, sexual dimorphism, rats 2578.
 attraction, visual stimuli, photographs, *Dasyclus aruanus* 1886.
 aversion learning, social interactions, *Meriones unguiculatus* 576.
 carion, feeding behavior, *Mammalia* 3751.
 chemical communication, stress, avoidance behavior, *Ambystoma tigrinum* 2282.
 chemical perception, role tongue, *Sceloporus jarrovi* 4105.
 communication, discrimination learning, stimulus control, pigeons 1653.
 effects on feeding behavior ontogeny, rats 1516.
 experience, effects on maze learning, *Isoptera* 586.
 heterospecifics, recognition, aggressive behavior, visual stimuli, *Dasyclus*
aruanus, *Dasyclus marginatus* 1195.
 hoarding behavior, *Sitta europaea*, *Parus palustris* 2701.
 identification, song, *Agelaius phoeniceus* 2307
 lacking behavior, pheromones, *Sceloporus occidentalis biseriatus* 3614.
 mucus secretions, aversion response, *Lehmnia valentina* 1529.
 odors, reinforcement, conditioning, rats 4122.
 olfactory perception, *Prociavia capensis* 4114
 pheromones, attractancy, *Aponomma hydrosauri* 3376.
 recognition, courtship, phylogeny, *Drosophila nasuta* 3501
 recognition, male selection, *Polistes fuscescens* 2426
 recognition, olfactory stimuli, feces, *Damaliscus dorcas dorcas* 3426.
 recognition, song variation, flocking behavior, *Parus atricapillus* 1171.
 recognition, tactile stimuli, mating behavior, *Enallagma* 2432.
 social behavior, display, *Phrynosoma platyrhinos*, *Phrynosoma coronatum* 3612.
 social behavior, effects on fear, rats 2230
 social interactions, *Reculitermes* 7
 social rank, olfactory perception, *Lepturus trimacronatus* 1177.
 taste aversion, adaptiveness, rats 2735
 trail following behavior, chemical stimuli, *Thamnomys* 1154.
 visual stimuli, aggressive behavior, *Betta splendens* 2323
 vocalization behavior, auditory perception, neurons, *Alytes obstetricans*
obstetricans, *Bufo viridis* 3070
 vocalization behavior, song, location, geographical distribution, *Poocetes*
grammeus 1160
 vocalization behavior, song matching, *Turdus merula* 1174
- Constrictor constrictor,**
 predators, effects on escape behavior, stress, *Saimiri* 2240
- Construction,**
 cocoons, maternal behavior, *Uloborus ferokus* 3357
 cocoons, silk, *Hyalophora cecropia* 3356
 comb, sheltering behavior, *Hymenoptera* 452
 nests, defense mechanisms, sound production (biological), *Syneca virginea* 1554
 webs, interspecific relationships, *Dendromyrmex charliei*, *Dendromyrmex fabricii*
 1534
- Consummatory behavior,**
 insulin, taste aversion learning, palatability, rats 1510.
 learned response, operant response, pecking behavior, stimulus control,
 autoshaping, pigeons 1647
 measuring techniques, *Apis mellifera* 2195
 regulation, brain ablation effects on, methodology, rats 902
 temperature perception, lead effects on, parasites, mice 413.
- Contingency,**
 operant response, attention task, alternation learning, sensitivity, man 1710.
- Continuous reinforcement,**
 foraging behavior, flowers, *Bombus edwardsii* 1644.
 reinforcement schedules, operant response, food, water, rats 1699.
 variable ratio schedule, extinction, rats 1635
- Control/feeding phenomenon,**
 feeding behavior, rats 1506
- Control,**
 motor activity, man, theories 2188.
- Controlled conditions,**
 feeding behavior, operant conditioning, *Lepomis macrochirus* 534.
- Convergence,**
 social behavior, mimicry, *Rhinopithecus roxellanae* 3764.
- Convergence zones,**
 atmospheric conditions, night flight activity aggregation behavior, *Insecta* 3778.
- Convolutions,**
 di-n-propylacetate effects on, mice 4348.
 licking behavior, electrical stimulation duration, rats 919.
 locomotor activity, kynurenine metabolites effects on, rats, mice 4345.
 running, physiology mechanisms, mice 4070
 tonic immobility, catalepsy, catatonia, shock, drug effects 739.

- Cooperation**,
competitive behavior, kin selection, *Panthera leo* 3829.
food intake, siblings, feeding behavior, *Acromys cahirinus* 400
mating behavior, evolution, models 505.
- Coordination**,
limbs, walking, Deiters' neurons, activity, cats 3046
limbs, walking, electromyographic activity, ablation, cerebrum, cats 3047
motor activity, conation, amygdala, hypothalamus, ventral striatum, thalamus 3131.
vision, eye, neck, muscles, vestibular nucleus, cats 3129.
walking, Phasmatidae 682.
- Copepoda**,
food availability, foraging behavior, locomotor activity 2620.
food organisms, juveniles, feeding behavior, *Oncorhynchus gorbuscha* 339.
- Copper**,
pollution levels, avoidance behavior, *Salmo gairdneri* 3805.
- Copris lunaris**,
life history, sexual reproduction, sexual behavior, nesting behavior 1289.
parental behavior, brood care, nesting 2517.
- Coprophagy**,
nutrient deficiency, iron, rats 3745.
- Coprophanaeus telamon**,
feeding behavior, bones, 310.
- Copulation**,
adaptiveness, breeding success, *Nezara viridula* 1540.
body movements, orientation, *Apanteles glomeratus* 3498.
brain function asymmetry, prenatal experience, light, chickens 3144.
breeding success, body size, effects on, strains, *Musca domestica* 1277
breeding success, courtship, *Procambarus clarkii* 3489.
breeding success, social rank 3486.
breeding success, social rank effects on, *Peromyscus maniculatus* 1332.
burrows, territorial behavior, nests, body size, males, *Ocyropsis ceratophthalmus* 2383.
competition, social hierarchy 3562
courtship, *Anas crecca carolinensis* 3551.
courtship, mating behavior, *Stema maxima* 2478.
courtship, reviews, *Ananias* 2382.
Cruzeira lambellae 3491.
display, mate selection, song, *Zonotrichia leucophrys oriantha* 3399.
drug effects, estrogen, progesterone, rats 4380.
drugs effects on, naloxone, N-n-propyloropomorphine, males, rats 4373.
environmental factors, temperature, *Ascia monuste orseis* 2405.
hormones, endocrine system, behavior modulation, reviews 4397.
Jabiru mycteria 2473.
latency, cages, space effects, mice, *Peromyscus maniculatus* 1322.
mate selection, *Pan troglodytes* 3581.
mate selection, *Pogonomymex californicus* 3513.
mating behavior, adaptiveness, males, *Rodentia* 1325.
mating behavior, aggressive behavior, dominance, males, *Bulbulcus ibis* 1298.
mating behavior, *Ancyllostoma duodenale* 2387.
mating behavior, *Antheraea yamamai*, Japan 1254.
mating behavior, *Bison bison* 3563.
mating behavior, breeding, cattle 2499.
mating behavior, *Caracus maenas* 3488.
mating behavior, competition, males, *Caloptera discrepans* 1255
mating behavior, competition, social behavior, rats 3578.
mating behavior, functional morphology, *Oncychotus borealijaponica* 2384.
mating behavior, genes, *Drosophila melanogaster* 2877.
mating behavior, *Glossina moritans moritans*, *Glossina austeni* 2414.
mating behavior, grooming, *Ovis trichopis* 3541.
mating behavior, *Imparipes histicrus* 2433.
mating behavior, *Microtus canaliculatus*, *Microtus oeconomus*, *Microtus xanthognathus* 3569.
mating behavior, prolactin effects on, rats 3316.
mating behavior, protection, females, territorial behavior, *Heteraia vulnerata* 2399.
mating behavior, sex differences, rats 3576.
mating behavior, *Streptopogonopis jerdani* 2381.
mating behavior, tree-rubbing behavior, *Alouatta palliata* 3871.
mating behavior, *Dipodomys ordii*, USA, Kansas 2503.
memory, social behavior, exploratory behavior, duration, rats 1374.
midbrain lesions effects on, rats 908.
morphology, *Coenagrion scitulum* 2411.
mounting behavior, competition, *Lygaeus equestris* 1290.
observation methods, sampling, *Macaca arctoides* 4438.
olfactory discrimination, *Neotoma lepida lepida* 1337.
oviposition, *Lymanea truncatula* 101.
pain perception, brain opioids, rats 3123.
 γ -radiation effects on, *Lymantria dispar* 119.
recovery of function, preoptic area lesions, rats 4244.
reflexes, castration, estradiol effects on, rats 2181.
release factors, physical characteristics, *Plodia interpunctella*, *Cadra cautela*, *Anagasta kuehniella* 124.
reproductive behavior, spermatozoia, *Nezara viridula* 110.
serinal fluid ribonuclease, effects on, rats 1323.
sexual behavior, *Articteis binturong* 187.
sexual behavior, courtship, *Lampropeltes calligaster* 152.
sexual behavior, flight activity, *Eudictio tibialis*, USA, Maryland 1265.
sexual behavior, nesting behavior, vocalization behavior, *Himantopus himantopus* 2898.
social interactions, population density effects on, *Alouatta palliata* 196.
song effects on posture, song bioacoustics, *Molothrus ater* 1163.
sperm use, females, *Drosophila pseudoobscura* 104.
steroids, testosterone propionate, orienting response, females, *Mesocricetus auratus* 1319.
stridulation, courtship, mounting behavior, *Palmarcorixa nana* 2400
stridulation, sexual receptivity, rats 1181.
- Coragyps atratus**,
nesting behavior, motor activity, wings, juveniles, Panama 2896.
- Coral reefs**,
feeding behavior, diets, territorial behavior, Pisces, Japan Coast 1461.
- Coralliphila abbreviata**,
feeding behavior, predation, Haiti Coast 3656.
feeding behavior, prey; *Cnidaria*, Discovery Bay, Jamaica 1403.
predation, diets, *Cnidaria* 2624.
- Coralliphila caribaea**,
feeding behavior, prey, *Cnidaria*, Discovery Bay, Jamaica 1403.
predation, diets, *Cnidaria* 2624.
- Corbicula fluminea**,
olfactory organs, nerves, histology 814.
- Cordulegaster boltini**,
territorial behavior, aggressive behavior, Germany, Fed. Rep., Fichtelgebirge 3465.
- Coregonus artedii**,
migrations, distribution, life cycle, Canada, James Bay 648.
- Coregonus clupeaformis**,
andromous migrations, distribution, life cycle, Canada, James Bay 648.
- Coreidae**,
11 species, feeding behavior, food plants, aggressive behavior, Costa Rica, Guanacaste Province 1433.
- Coreoperca kawame**,
dominance, coloration, agonistic behavior 3483.
- Corixa dentipes**,
sound production, stridulation, communication, acoustics 3381.
- Corixa punctata**,
sound production, stridulation, communication, acoustics 3381.
- Corixidae**,
navigation behavior, role, light polarization 1841.
sound production, stridulation, communication, acoustics 3381.
- Corophium**,
food selection, predation, *Tadorna tadorna*, British Isles, Scotland 353.
predation, *Tadorna tadorna*, *Hydrobia* 352.
- Corophium volutator**,
temperature preferences, avoidance behavior, equipment, measuring techniques 430.
- Corpus callosum**,
cerebral dominance, asymmetry, early experience 3132.
intraocular transfer, reversal learning, cats 591.
lesions, interocular transfer, visual perception, brain commissures, rats 899.
visual discrimination, memory, bilateral engram storage, cats 4028.
- Correlation**,
anatomy, hippocampus, neurons, avoidance behavior, genetic relationship, mice, rats 802.
- Correlation analysis**,
feeding behavior, physiology, methodology, rats 401.
- Cortex**,
ablation, age effects, feeding behavior, grooming, sexual behavior, physical activity, rats 1956.
ablation, effects on visual discrimination, rats 907.
ablation, motor activity, environmental effects, rats 2029.
ablation, species behavior, neonates, hamsters 1959.
activity, operant conditioning, *Saimiri* 4217.
auditory stimuli effects on electropotential, ontogeny, man 1927.
dentate nucleus, neurophysiology, motor activity, synergism, baboons 871.
discrimination learning, brain ablation, tactile perception, neurophysiology 598.
EEG, conditioned response, neurophysiology, dogs 858.
EEG, epilepsy, focal spikes, rats 854.
electrical properties, arousal 1973.
lesions, effects on feeding behavior, sensorimotor ability, rats 3198.
lesions, effects on maze learning, rats 888.
lesions, effects on memory, rats 2041.
lesions, effects on taste aversion, nutrient deficiency sensitivity, rats 2027.
lesions, schedule-induced behavior, polydipsia, rats 4238.
morphology, asymmetry, handedness, cerebral dominance, visual discrimination, cats 796.
motor activity, auditory stimuli, cats 855.
nerve transmission, neurophysiology, EEG, arousal, resting behavior, cats 860.
nerve transmission, skin, locomotion, arousal 812.
nervous system, physiology, motor activity, hand, monkeys 875.
neurotransmission, epilepsy, operant conditioning, *Macaca mulatta* 803.
RNA biosynthesis, learning behavior, drug effects, ethymizol, rats 960.
thalamus, rhythms, attention, immobilization, cats 862.
visual perception, patterns, models 1074.
waves, reinforcement signals effects on, *Saimeri sciura* 878.
- Cortex (anteromedial)**,
lesions, effects on visual perception, approach behavior, rats 4241.
- Cortex (auditory)**,
ablation, conditioned response, auditory stimuli, rats 3173.
ESB, orientation habituation, cats 3211.
midbrain, neurons, auditory stimuli, analytical techniques, *Rana temporaria* 732.
- Cortex (cingulate)**,
EEG, reversal learning, rabbits 3161.
lesions, discrimination, conditioning, vocalization behavior, social behavior, *Macaca mulatta* 804.
lesions, effects on vocalization behavior, *Macaca mulatta* 913.
- Cortex (entorhinal)**,
lesions, effects on learning behavior, mice 2044.
lesions, effects on open-field behavior, rats, cats 2030.
lesions, effects on operant conditioning performance, mice 611.
lesions, recovery of function, environmental effects, sensory stimuli, rats 2020.
- Cortex (frontal)**,
asymmetry, hyperactivity, neurotransmitters, 6-hydroxydopamine, rats 800.
lesions, effects on discrimination learning, rats 595.
lesions, effects on spatial discrimination learning, rats 4237.
lesions, neonates, effects on activity patterns, rats 2058.
training effects on pyruvate dehydrogenase (lipoamide) enzyme activity, phosphorylation, effects on 2004.
- Cortex (gustatory)**,
lesions, conditioned response, taste aversion, retention, rats 2021.
- Cortex (inferotemporal)**,
lesions, effects on visual perception, monkeys 727.
neurons, response, color visual stimuli, monkeys 728.
- Cortex (motor)**,
electrical stimulation, effects on motor activity, cats 920.
neurons, role, feeding behavior, electrophysiological recording, monkeys 2009.
- Cortex (occipital)**,
lesions, visual discrimination, visual perception, rabbits 3194.
neurons, anatomy, environmental conditions, enrichment, rats 3154.
- Cortex (prefrontal)**,
EEG, manipulation, visual stimuli effects on, monkeys 870.
ESB, intracranial self-stimulation, rats 4260.
lesions, age effects, behavior, rats 2035.

Cortex (prefrontal), (continued)

- lesions, associative learning, *Macaca mulatta* 4250
- lesions, delayed response, retention, guinea pigs 903
- lesions, effects on avoidance learning, extinction, rats 3193
- lesions, effects on delayed response performance, rats 909
- neurons activity, visual perception, go/no-go discrimination learning, monkeys 4210

- neurons, role, feeding behavior, electrophysiological recording, monkeys 2009
- synaptic membranes proteins, problem solving, rats 4171
- unit activity, short term memory, vision, reinforcement, *Macaca mulatta* 3180

Cortex (sensorimotor),

- ablation, effects on motor skill, dogs 897
- lesions, recovery of function, tactile discrimination learning, rats 4239
- neurons responsiveness, food organisms, *Bufo bufo* 1978

Cortex (temporal),

- lesions, effects on learning behavior, visual stimuli, monkeys 3208
- lesions, visual discrimination, discrimination learning, cats 2033

Cortex (visual),

- ablation, effects on visual perception, depth, cats 3059
- ablation, effects on visual perception, gerbils 721
- activity, visual perception, rats 4199
- electrical properties, conditioning, cats 1987
- lesions, effects on discrimination learning, early experience, sensory stimuli, cats 2056
- lesions, effects on visual discrimination, rats 889
- lesions, effects on visual perception, cats 4088
- lesions, effects on visual perception, *Galago* 877
- lesions, orientation, rats 3203
- lesions, visual discrimination, striate cortex 3209
- memory, training, brain proteins, rats 842
- neurons, neurophysiology, visual stimuli, appetitive behavior, cats, rabbits 2008
- neurons, visual discrimination, *Aotus trivirgatus* 1896
- neurophysiology, saccadic eye movements, visual discrimination learning, monkeys 4092
- orientation, development, neurons, enucleation, juveniles, cats 861
- synaptic membranes proteins, problem solving, rats 4171

Corticolimbic,

- effects on food intake, grooming, rats 4408

Corticosteroids,

- plasma levels, adjective behavior effects on, pigs 3315
- plasma levels, stress effects on, mice 1117

Corticosterone,

- adrenal gland, steroids, extinction, avoidance behavior, rats 3313
- catecholamines, plasma, stress, rats 2236
- circadian rhythms, locomotor activity, lesions, midbrain raphe nuclei, rats 904
- grooming, glucose metabolism, brain, mice 4213
- hormones, stress, plasma level, tissues distribution, rats 1119
- plasma levels, stress, electric fields perception, mice 1921
- plasma levels, stress, novelty effects on, rats 4167
- plasma, stress, visual deprivation, polypeptides, chickens 1120

Corticotropin,

- effects on grooming, dopamine role, rats 4206
- effects on learning behavior, rats 4370
- modulation, stereotyped behavior, feeding behavior, yawning behavior, *Columbia livia* 4402

Corticotropin,

- hormones, effects on maze learning, rats 2973

Cortisol,

- plasma level, stress effects on, predators, *Saimiri* 2240
- plasma levels, fighting effects on, man 2185

Corvidae,

- ecological distribution, social behavior, feeding, movements, seasonal variations 2894

- foraging behavior, hoarding behavior, seeds 3731

Corvus brachyrhynchos,

- operant response, reinforcement schedules, extinction 3893
- parental behavior, anti-predator behavior 2541

Corvus caurinus,

- factors affecting predation, eggs 3730
- predatory behavior, juveniles, *Sturnus vulgaris*, Canada, British Columbia 2697

Corvus frugilegus,

- foraging behavior, flocking behavior, grasslands 2688
- mating behavior, male selection 2479

Corvus macrorhynchos,

- play, theft, golf balls, Bangladesh 2899

Corvus monedula,

- breeding success, nesting behavior, artificial substrates effects on, *Corvus monedula* 2460

Corythucha ciliata,

- flight activity, seasonal variations 1864

Cosmospiza natalensis,

- feeding behavior, interspecific relationships, *Turdus fisheri* 2709

Coturnix coturnix japonica,

- avoidance learning, microwave radiation, effects on 2950
- juveniles, preferential behavior, color, genetics, visual perception 1889
- preferential behavior, color, phenotypes, pleiotropy, genetics 1584
- sex hormones effects on incubation behavior 2536

Coturnix japonica,

- aggressive behavior, males, androgens, estrogens effects on 1036
- mating behavior, male selection 2480
- sexual behavior, sound production, testosterone effects on 4401
- vocalization behavior, locomotor activity, circadian rhythms, testosterone effects on 3100

Coesius plumbeus,

- circadian rhythms, photoperiods, physiology, environmental conditions, entrainment, seasonal variations 1935

Coupling methods,

- population density, instruments, *Aves* 1088

Courtship,

- activity patterns, movements, geographical distribution, *Cervus elaphus* roosevelti, USA, California 2485
- aggressive behavior, dominance, males, *Epicaea pennsylvanica* 2396
- aggressive behavior, *Gonatodes vittatus* 2893
- agonistic behavior, sequence, patterns, *Aphyosemon gardneri* 1295
- androgens, hormones, males, *Streptopelia risoria* 1035

Courtship, (continued)

- copulation, *Anas crecca carolinensis* 3551
- copulation, mating behavior, *Sterna maxima* 2478
- copulation, reviews, *Araneae* 2382
- display, lek, *Chiroxipha caudata* 1313
- display, mating behavior, age effects, *Aix galinula* 1316
- display, pair bond chronology, vocalization, *Aix sponsa* 1315
- display, *Platycephalus fittsimoni*, *Chlorocerypha consuta*, *Rhinocypha unimaculata* 2431

- display, stereotyped behavior, *Uca minax*, *Uca pugnax* 3377

- display, use, systematics, *Salicidae* 3378

- ecological distribution, *Epicaea* 1236

- ecology, *Podiceps galliardii* 1309

- estrogens, testosterone, castration, males, *Streptopelia risoria* 2174

- eye color mutants, genetics, heterozygosity, *Drosophila melanogaster* 2880

- genes, hybrids, *Drosophila melanogaster*, *Drosophila simulans* 1582

- inhibition, sex pheromone mutants, *Drosophila melanogaster* 142

- interference, territorial behavior, male selection, nests, *Gasterosteus aculeatus* 3528

- learning behavior, pollution effects, phenol, *Poecilia reticulata* 3804

- males, stridulation, calling behavior, *Lygromys diffus* 1250

- mate selection, discrimination, age, body size, *Pteris protodice* 2397

- mate selection, females, *Colias eurytheme*, *Colias philodice* 123

- mate selection, *Phidippus femoratus* 2386

- mating behavior, adaptations, ponds, streams, *Ambystoma texanum* 3524

- mating behavior, auditory stimuli, auditory perception, *Drosophila mercatorum* 3069

- mating behavior, *Brachymeria lasus* 1272

- mating behavior, *Dacus cucurbitae* 1276

- mating behavior, *Dasyatis centroura*, USA, Florida Coast 157

- mating behavior, females competition, *Anabrus simplex* 1288

- mating behavior, *Glossina morsitans morsitans*, *Glossina austeni* 2414

- mating behavior, *Heliothis virescens* 1246

- mating behavior, *Lissemys punctata punctata*, India, L. Mansar 148

- mating behavior, *Maclemys terrapin*, USA, Florida 146

- mating behavior, *Mallophora schwarzi*, Panama, Gamboa 2440

- mating behavior, maturation, *Anastrepha ludens* 1285

- mating behavior, *Pelomedusa subrufa* 3526

- mating behavior, population structure, population genetics, *Drosophila primaeva*, Hawaii 141

- mating behavior, *Portia fimbriata* 2380

- mating behavior, *Procambarus clarkii* 3489

- mating behavior, sex pheromone, *Rhodesia ocellatus ocellatus*, *Acheilognathus lanceolatus* 3532

- mating behavior, vocalization, females, *Eutamias* 2490

- mating behavior, *Wiedemannia lepidia* 1281

- mutants, phototaxis, visual stimuli, *Drosophila melanogaster* 2876

- nesting behavior, *Crocodylus johnstoni* 2446

- recognition, conspecifics, phylogeny, *Drosophila nasuta* 3501

- reproductive isolation, *Aponomma hydrosauri*, *Amblyomma albolimbatum*, *Amblyomma limbatum* 3502

- reproductive isolation, *Drosophila mojavensis*, *Drosophila arizonensis* 118

- sex pheromone role, biochemical analysis, diets, *Uethesia ornatrix* 1152

- sex pheromone, *Thamnopis sirtalis panetalis* 1293

- sexual behavior, copulation, *Lampropeltis calligaster* 152

- sexual behavior, isolation, sympatric populations, dimorphism, *Aechmophorus occidentalis* 172

- sexual behavior, mutants, *Drosophila* 2628

- sexual behavior, sex hormones, blood levels, odor, urination, *Rangifer tarandus* 190

- sexual behavior, sex ratio, environmental factors, spawning, *Tautoga onitis* 156

- song, genetics, *Drosophila melanogaster*, *Drosophila simulans*, *Drosophila mauritiana* 1291

- spawning behavior, *Autogobius asperus*, Canada, Newfoundland, Bonne Bay 153

- stridulation, mounting behavior, copulation, *Palmaecoria nana* 2400

- swarming, sex pheromone, *Diplotis pectoratorius* 2410

- temperature effects on, *Poecilia reticulata* 3529

- territorial behavior, vocalization behavior, song, *Scenius aurocapillus* 41

- testosterone, implants, lesions, nucleus intercollicularis, *Streptopelia risoria* 1317

- tracking, females, *Drosophila melanogaster* 134

- visual communication, bioluminescence, neurophysiology, *Photinus luciferescens* 2274

- vocalization, chemical stimuli, conspecific odors, *Mus musculus* 1182

Crabro advena,

- nesting behavior variability 106

Crabro monticola,

- nesting behavior, usurpation, burrows 3522

Crangon crangon,

- activity patterns, temperature, body size effects on 2775
- tidal rhythm migrations, juveniles, adults, Wadden Sea 624

Cricetomys gambianus,

- diets, feeding behavior 1498

Crickets,

- Gryllidae, aggressive behavior, cyclic AMP, neurotransmitters 3176

Crociodura bottegi,

- activity patterns, diurnal variations 494

Crociodura flavescens,

- activity patterns, diurnal variations 494

Crociodura giffardi,

- activity patterns, diurnal variations 494

Crociodura juvenetiae,

- activity patterns, diurnal variations 494

Crociodura poensis,

- activity patterns, diurnal variations 494

Crociodura russula,

- activity patterns, diurnal variations 494

Crociodura wimmeri,

- activity patterns, diurnal variations 494

Crociodurinae,

- activity patterns, diurnal variations, comparative studies 494

Crocodylus,

- behavior ecology 459

Crocodylus acutus,

- nesting behavior, defensive behavior, predatory behavior, interspecific relationships, *Iguana iguana* 3859

- Crocodylus johnstoni**,
courtship, nesting behavior 2446
- Crocodylus acrovelatus**,
temperature preferences, developmental stages, ontogeny, feeding behavior 458
- Crocota crocata**,
predatory behavior, food selection, Namibia, Namib Desert 3748.
- Cromileptes altivelis**,
thermoregulatory behavior, temperature tolerance, Indo-Pacific region 1562.
- Crop fields**,
pest control, taste aversion, 3,5-dimethyl-4-(methylthio) phenol methylcarbamate, USA, New Mexico 299
- Crop fields**,
Aves 4445.
- Crop fields**,
sewage sludge, effects on swimming behavior, *Microtus pennsylvanicus* 2842.
- Crop protection**,
barriers, light effects, colonization, behavior, *Myzus persicae* 1410.
- Crotophaga sulcirostris**,
flight activity, seasonal variations 1865.
- Cross-breeding**,
assortative mating, male selection, population structure, *Columba livia* 3538.
- Crossidius pulchellus**,
borers, feeding behavior, roots, *Gutierrezia sarothrae*, *Gutierrezia microcephala*, USA, New Mexico 299
- Crotalus**,
exploratory behavior, tongue flicking, chemical stimuli, odors 4106.
- Crotalus atrox**,
carnivores, feeding behavior, carion 325.
- Crotalus**,
predatory behavior, tracking 1447.
- Crotalus eryx**,
hunger effects on chemoreception, feeding behavior 2659.
predatory behavior, attack, chemoreception, tongue 1444.
predatory behavior, chemical stimuli 3678.
- Crotalus ruber**,
feeding behavior, scavenging behavior 2664.
- Crotalus viridis**,
hunger effects on chemoreception, feeding behavior 2659.
predatory behavior, chemoreception, mice food organisms 733.
predatory behavior, prey escape behavior, *Mus musculus* 2856.
- Crotalus viridis helleri**,
feeding behavior, cannibalism, carion 3684
- Crotalus viridis**,
predatory behavior, chemotaxis, food organisms localization, *Mus musculus* 1445.
- Crotalus viridis**,
predatory behavior, chemical stimuli 3678
- Crotaphaga ani**,
feeding behavior, food preferences, Anolis, Grenada 351.
infanticide, communal breeding, breeding behavior 167.
- Crowing**,
cages, effects on food consumption, *Colinus virginianus* 1482.
effects on neurons morphogenesis, juveniles, *Hemichromis bimaculatus* 3142.
effects on sex pheromone, sexual behavior, *Acanthoscyridius* 2255.
effects on social spacing, juveniles, *Hemichromis bimaculatus* 2349.
reproductive behavior, egg laying, photoperiods, *Lagopus lagopus* 178.
- Crustacea**,
food organisms, feeding behavior, *Nyctanassa violacea* 3727.
zooplankton, locomotor activity 671.
- Cruzema lambdase**,
copulation 3491.
- Crypsis**,
coloration, visual stimuli, *Platycephalus arenarius* 467.
mimicry, preferences, algae, *Pugettia producta* 3771.
- Cryptolepas rhachneae**,
parasites, cleaning behavior, symbiosis, *Atherinops affinis*, *Eschrichtius robustus* 1452.
- Cryptotermes**,
environmental effects, humidity, hygrotoxis, temperature, acclimation 2794.
temperature tolerance, acclimation, habitat preferences 456.
- Cryptotermes brevis**,
temperature tolerance, acclimation, habitat preferences 456.
- Cryptotermes dudleyi**,
temperature tolerance, acclimation, habitat preferences 456.
- CS**,
auditory stimuli, appetitive conditioning, rats 3939.
auto-shaping, classical conditioning, reinforcement, extinction, recovery, pigeons 537.
auto-shaping, pairing, *Streptopelia risoria* 535.
aversion learning, interocular transfer, *Columba* 717.
classical conditioning, conditioned response, pigeons 3908.
classical conditioning, fear conditioning, rats 2186.
conditioned response formation, UCS 2928.
discrimination learning, effects on stress, cats 552.
freezing, aversion learning, shock, rats 566.
habituation, classical conditioning, rats 2926.
hyperthermia, stress, rats 4482.
intensity, effects on latent inhibition, cardiac conditioning, rabbits 1753.
operant response, feeding 1639.
reinforcement magnitude, auto-shaping, pigeons 3905.
self-punitive behavior, extinction, *Rattus rattus* 544.
tactile perception, matching, enhancement 4125.
UCS, effects on, eyelid conditioning, pre-conditioning, rabbits 1694.
UCS, taste aversion learning, retention, memory, rats 1736.
- CS (compound)**,
nictitating membrane response conditioning, rabbits 555.
- CS compound**,
go/no-go discrimination learning, blocking, rats 1686.
- Cuculus canorus**,
auditory communication, vocalization behavior, feeding, competition, juveniles 3815.
nests parasites, hosts coevolution, *Phoenicurus phoenicurus* 3814.
parasites, rearing, hosts, brood care 2533.
- Cues**,
avoidance behavior, toxins, sampling, duration, rats 1739.
color, discrimination learning, avoidance learning, reversal learning, *Carassius auratus* 2948.
deprivation stimuli, operant conditioning, reinforcement, rats 545.
discrimination learning, drug effects, physostigmine, atropine, rats 1006.
memory, forgetting, delayed response, matching-to-sample, pigeons 1808.
memory, imprinting, rats 1822.
- Cues, (continued)**
odors, reinforcement, trials, activity patterns, locomotor activity, rats 1679.
orientation, motivation, thirst, discrimination learning, transfer learning, rats 742.
reinforcement, deprivation, hunger, incentive contrast, response, rats 1703.
saccharin, light, associative learning, shock, avoidance behavior, aversion learning, rats 1749.
taste, sound, shock, associative learning, avoidance learning, rats 1750.
- Culex fatigans**,
food organisms, food preferences, *Toxorhynchites theobaldi* 307
- Culex pipiens quinquefasciatus**,
chemotaxis, nucleotides, larvae 4101.
flight activity, circadian rhythms, photoperiod 4132.
- Culex quinquefasciatus**,
sexual behavior, oviposition, diel variations, photoperiods, circadian rhythms 1237.
- Culex tarsalis**,
mating behavior, males, competition, fecundity, radiation effects on 145.
- Culicoides crepuscularis**,
seasonal variations, diel activity, flight activity, USA, Colorado 680.
- Culicoides hieroglyphicus**,
seasonal variations, diel activity, flight activity, USA, Colorado 680.
- Culicoides palmerae**,
seasonal variations, diel activity, flight activity, USA, Colorado 680.
- Culicoides variegatus**,
mating behavior, swarming, USA, Virginia 2407.
seasonal variations, diel activity, flight activity, USA, Colorado 680.
- Cultural characteristics**,
social behavior, learning behavior, feeding behavior, *Papio ursinus*, *Cercopithecus aethiops* 1382.
- Cupressus salei**,
communication, leaves vibrations, oscillation 1128.
- Cuticle**,
lipids, mating behavior deterrents, *Glossina morsitans morsitans* 3516.
- Cyamus**,
parasites, cleaning behavior, symbiosis, *Atherinops affinis*, *Eschrichtius robustus* 1452.
- Cyanide**,
effects on central nervous system, reflexes, rats 1994.
- Cyanophyta**,
food organisms, chemical stimuli, feeding behavior, *Uca pugnator* 267.
- Cyclazocine**,
discrimination learning, stimulus control, rats 1791.
- Cycles**,
filter feeders, feeding behavior, *Cobitis taenia* 2680.
- Cyclic AMP**,
aggressive behavior, neurotransmitters, mice, crickets 3176.
- Cyclic GMP**,
effects on aggressive behavior, rats, mice 1953.
- Cycloheximide**,
drug effects, avoidance learning, retention, *Periplaneta americana* 2075.
effects on memory inhibition, saccharin taste aversion learning, protein biosynthesis, rats 4153.
- Cycloneda polita**,
larvae, foraging behavior, predatory behavior 1428.
- Cyclops**,
food organisms, predation, *Neomysis mercedis*, USA, Washington, Washington L. 266.
- Cyclops bicuspidatus**,
food organisms, abundance, effects on predators feeding behavior, *Lepomis macrochirus* 3690.
- Cyclops caroli**,
avoidance behavior, defensive behavior, predators 3789.
- Cynia tenera**,
defensive behavior, vocalization behavior, predators, *Chiroptera* 2806.
- Cydia pomonella**,
host searching behavior, host plants, temperature effects on 3786.
- Cyllindroperum**,
feeding behavior, larvae, *Perla truncatula* 1401.
- Cynomys leucurus**,
colonies, adaptiveness, predators effects on 1371.
- Cynomys ludovicianus**,
colonies, adaptiveness, predators effects on 1371.
diets, herbivores 2762.
- Cyphoma gibbosum**,
feeding behavior, stimuli, food availability 259.
- Cypraeacassis testiculus**,
feeding behavior, functional morphology, diets 2625.
- Cyprinodon salinus**,
social behavior, activity patterns 2569.
- Cyprinodontidae**,
vegetation patterns effects on predation efficiency, *Decapoda* 418.
- Cyprinus**,
taste perception, chemoreceptors, neurons 924.
- Cyprinus carpio**,
visual perception, eye movements 1887.
visual perception, light, polarization 715.
- Cyproterone acetate**,
drugs, predation, *Mustela* 396.
effects on aggressive behavior, shock, rats 2140.
- Cyptochirus**,
nest building, egg laying 138.
- Cystonectae**,
feeding behavior, diel variations, Sargasso Sea, USA, Washington Coast 278.
- Cystosoma saundersi**,
acoustic communication, song, computer applications 24.
population dynamics, reproductive behavior, mate selection 1278.
- Cytidine diphosphate choline**,
drug effects, locomotor activity, dopamine neurons degeneration, rats 1007.
- Cytology**,
behavior, *Porifera* locomotion 3030.
- Cytosol**,
receptors, hypothalamus, progesterins, rats 1335.

- Dactyloctenium aegyptium**, thermoregulation, diurnal variations, movements, host plants 2790
- Dacus cucurbitae**, mating behavior, courtship 1276.
- Dacus dorsalis**, mating behavior, mate selection 1268
- Dacus oleae**, mating behavior, sexual behavior 2415
- Dairies**, dominance, social hierarchy, cattle 1375
- Damaliscus dorcas dorcas**, olfactory stimuli, feces, conspecifics recognition 3426
- Danassus plexippus**, thermoregulatory behavior, migrations, population dynamics 2813
- Daphnia**, food organisms, food preferences, *Poecilia reticulata* 335
food organisms, predation, *Neomysis mercedis*, USA, Washington, Washington L. 266
predation, food preferences, body size, *Neomysis mercedis* 1394
vertical migrations, water temperature effects on, swimming behavior 3773
- Daphnia galeata**, food organisms, abundance, effects on predators feeding behavior, *Lepomis macrochirus* 3690
- Daphnia magna**, food organisms, predatory behavior, light effects on, *Abramsa brama* 3692
vertical migrations, water temperature effects on 3772.
- Daphnia pulex**, food organisms, feeding behavior, *Lepomis macrochirus* 2668
- Daucylus aruanus**, visual evoked response, visual stimuli, attraction, photographs, conspecifics 1886
visual stimuli, aggressive behavior, conspecifics, heterospecifics, recognition 1195
- Daucylus marginatus**, visual stimuli, aggressive behavior, conspecifics, heterospecifics, recognition 1195
- Dasypus centroura**, courtship, mating behavior, USA, Florida Coast 157
- Dasypus**, reproductive behavior, feeding behavior, South Africa 445
- Dasypus bipunctatus**, feeding behavior, South Africa 445
- Dasypus dubiosus**, feeding behavior, South Africa 445
- Dasypus armatus**, feeding behavior, South Africa 445
- Dasypus ruficaudus**, feeding behavior, South Africa 445
- Dasypus westermanni**, reproductive behavior, feeding behavior, South Africa 445
- Data acquisition**, activity patterns, measuring techniques, computer applications, microcomputers 3333
computer applications 2190
computer applications, maternal behavior, mice 1094.
- Data processing**, activity patterns, measuring techniques, computer applications, microcomputers 3333
- Daucus carota**, host plants, odors, olfaction, orientation, *Psila rosae* 4103
- DDT**, pollution effects, swimming, activity patterns, *Platichthys flesus*, Baltic 511
- Deafness**, song, vocalization behavior, *Serinus canarius* 3417.
- Deamid**, drug effects, behavior, neurotransmission, rats 2163
- Decapoda**, food organisms, vegetation patterns effects on predation, *Cypinodontidae* 418
- Decitax verrucosus**, vibratory stimuli, mechanoreceptors, neurophysiology 1909
- Defecation**, scent marking behavior, *Martes martes* 3480
therapy, veterinary medicine, dogs 3345
- Defective mutant**, wings, feathers, flight activity, chickens 3043
- Defense**, development, aggressive behavior, early experience, adult, cats 71.
development, aggressive behavior, early experience, juveniles, cats 72
development, aggressive behavior, hunger, juveniles, cats 73.
harems, reproductive behavior, *Artibeus jamaicensis* 1320.
literature reviews, forebrain lesions, inhibition, rats 882.
operant conditioning, ESB, hippocampus, dogs 3212.
- Defense mechanisms**, agonistic behavior, social behavior, *Apicomertinae* 2318
burrowing behavior, *Cicindela willistoni*, USA, Arizona, Sulphur Springs Valley 2802.
cuckoldry, paternal behavior, incubation delay, *Sturnus vulgaris* 1314
defensive behavior, interspecific relationships, host-parasite interactions, *Molothrus ater*, *Dendroica petechia* 477.
endotoxins, effects on activity patterns, *Gambusia affinis*, *Akcyonacea* 2829
foaming, *Pachycondyla* 58
hosts, parasitoids host searching behavior, *Apanteles euphydryidis*, *Euphydryas* phaeton 2800.
interspecific relationships, *Reticulitermes flavipes*, *Reticulitermes virginicus*, *Solenopsis geminata* 1189
nest building, colonial characteristics, *Synoecca surinama* 2783
predation, *Gastropoda*, Panama Gulf 264
defense behavior, chemical communication, *Brachiura* 4.
shells, *Trochidae* 432.
sound production (biological), nests, *Synoecca virginica* 1554.
stabilimnetia, webs structure, *Argiope aurantia*, *Argiope trifasciata* 1525
stridulation, disturbance effects on, *Megaloblatta blaberoides* 2316.
- Defense secretions**, composition, sex pheromone, mating behavior, *Taeniopoda eques* 2266
defense mechanisms, *Reticulitermes flavipes*, *Reticulitermes virginicus* 1189.
- Defensive behavior**, activity patterns, coloration, sound production, *Sipylodes sipylus* 2319.
- Defensive behavior, (continued)**
activity patterns, EEG, *Bufo regularis*, *Rana temporaria* 3140.
adrenocorticotrophic hormone, rats 1958
aggressive behavior, shock effects on, mice 2335.
agonistic behavior, carbachol effects on, cats 995.
alarm behavior, alarm pheromone, attack, *Polybia occidentalis* 1191
amygdala lesions effects on, mice 4240
anti-predator behavior, *Myrmecoleon*, *Formicidae* 2810
attack, rats, *Rattus norvegicus*, *Rattus* rats 3453.
aversion learning, burying behavior, rats, mice, guinea-pigs, hamsters 3975.
avoidance learning, rats, gerbils 1200
burrowing behavior, conditioned response, shock, preexposure, strains, rats 3977.
burying behavior, aversive stimuli, rats 3833
burying behavior, aversive stimuli, rats 3834.
burying behavior, avoidance behavior, shock, rats 1746.
burying behavior, backward conditioning, rats 3932
burying behavior, conditioning, contextual control, rats 3929
burying behavior, piling behavior, avoidance behavior, shock, rats, hamsters 1733.
burying, shock, avoidance behavior, preexposure, rats 1728.
conditioned response, lesions, *substantia nigra*, cats 2019
emotional behavior, optomotor response, vocalization behavior, cats 76.
fighting, effects on cardiovascular system physiology, cats 75.
food organisms, effects on predators, attack, *Onychomys torridus* 3744.
interspecific relationships, host-parasite interactions, *Molothrus ater*, *Dendroica petechia* 477
intracranial chemical stimulation effects on, glutamate, midbrain, hypothalamus, cats 4274.
lesions, septum, cats 2018.
literature reviews, forebrain lesions, inhibition, rats 882
maternal behavior, predators, *Gargaphia solani* 1344.
motor activity neurons, excitation, inhibition, habituation, *Astacus* 823.
nest building, nest provisioning, *Stictia maculata* 2429.
nesting behavior, interspecific relationships, *Crocodylus acutus*, *Iguana iguana* 3859.
nests, *Catalaulus guineensis*, Ghana 56
ontogeny, response, external stimuli, rats 2920.
parental behavior, sex differences, monogamy, *Rynchops niger* 2532.
pheromones, polythetic behavior, *Nasutitermes corniger* 2278.
predator-prey interactions, *Pisaster giganteus*, *Tegula pulgilio*, *Calliostoma ligatum* 2619
predators, *Araneidae*, *Uloboridae* 3789.
predators, vocalization behavior, *Cynia tenera*, *Chiroptera* 2806
social behavior, communication, nests, *Synoecca surinama* 2254.
social organization, *Caryothraustes canadensis* poliogaster, Costa Rica 2574.
social rank, females, *Cercopithecus aethiops* 2596
territorial behavior, song, *Agelaius phoeniceus* 2362.
territorial behavior, *Zonotrichia albicollis* 2361.
vasoactive peptides, ESB, hypothalamus (ventromedial), rabbits 2062.
- Deficiency**, retinol, effects on phototaxis, photosensitivity, *Bombyx mori* 1842.
vitamins, retinol, feeding behavior, gustatory stimuli, juveniles, chickens 373
- Deficient mutant**, visual discrimination learning, memory, *Drosophila melanogaster* 2985
- Definition**, schooling behavior, social organization, *Pisces* 2570.
- Degeneration**, dopamine neurons, drug effects, cytidine diphosphate choline, locomotor activity, rats 1007
olfactory bulb, olfactory stimuli effects on, rats 1919.
- Dehydration**, effects on drinking behavior ontogeny, rats 1621
effects on grooming, water loss, *Rattus norvegicus* 2869
- Deliephila elenor**, anemotaxis, chemical stimuli, flowers 3008
- Delay**, reinforcement, maze learning, rats 1692
reinforcement schedules, preferences, reversal learning, pigeons 1800
signals, avoidance behavior, extinction, response prevention, rats 1738
- Delayed reinforcement**, interresponse time, operant conditioning, pigeons 3916.
retention, matching-to-sample, *Cebus apella* 1708.
short-term memory, discrimination learning, operant response, pigeons 2986.
spatial discrimination learning, maze learning, *Cebus apella* 1795
visual discrimination learning, maze learning, *Cebus apella* 1796
- Delayed response**, catecholamine, metabolism, cats 866.
changeover delay, reinforcement schedules, variable interval schedule, discrimination learning, pigeons 1670
conditioned response, reinforcement, learning behavior, *Cebus* 1599.
forgetting, memory, external stimuli, matching-to-sample, pigeons 1811.
latency, matching-to-sample, memory, pigeons 1654.
learning behavior, motor activity, reticular formation, electrophysiological recording, cats 843.
matching-to-sample, interference, pigeons 1664.
matching-to-sample, memory, forgetting, cats 1808.
matching-to-sample, proactive interference, memory, forgetting, pigeons 1815.
maze learning, taste aversion learning, rats 551.
memory, operant response, matching-to-sample, discriminative stimuli, children 1831.
performance, cortex (prefrontal) lesions effects on, rats 909.
preferences, multiple choice, *Macaca mulatta*, Pan 618
retention, lesions, cortex (prefrontal), guinea pigs 903.
self-stimulation, septum, emotional behavior, stress, cats 1106.
stimulus control, matching-to-sample, memory, directed forgetting, pigeons 1810.
- Delichon urbica**, reproductive behavior, parental behavior, pair bond, sex differences 163.
spring, migration, Romania 661.
- Delphinidae**, altruism, social behavior, reviews 2581.
vocalization behavior, sound production (biological), physiology 45.
- Delphinium neisoi**, nectar standing crop effects on feeding behavior, *Bombus appositus* 309.
- Delphinus delphis**, vocalization behavior, sound production (biological), physiology 45.

- Deltonosteus quadrimaculatus**, juveniles, food preferences, developmental stages, water depth 1453
- Dennance**, territorial behavior, mangrove swamps, Periophthalmus, Periophthalmodon Schlosseri 2352
- Demography**, aggressive behavior, exploratory behavior, *Microtus breweri* 2330. shift effects on, *Didelphis* 790. population regulation, reproductive behavior, *Macaca mulatta* 2510. reproductive behavior, altruism, kin selection, *Nesomimus parvulus* 2467.
- Dendragapus obscurus**, territorial behavior, habitat preferences, physical properties, vegetation patterns 2360.
- Dendrobates**, feeding behavior, food preferences, predators 328.
- Dendrochirus zebra**, social organization, spawning behavior, Japan, Izu I. 228.
- Dendroctonus brevicornis**, pheromones, attraction, interspecific relationships, *Ips paraconfusus* 1135.
- Dendroctonus frontalis**, environmental effects, weather, seasonal variations, flight activity 455. feeding behavior, host plants extracts effects on 1546. hosts, parasites olfaction, odors, *Hymenoptera* 2263. mutualism, *Dendrolaelaps neodisetus* 218. olfaction, pheromones enantiomers, electrophysiological recording, antennal sensilla 2261. oviposition, nest building, galleries 1238. temperature effects, population density, female body size, emergence, effects on, nest building, oviposition 1263.
- Dendroctonus ponderosae**, chemoreception, gustatory stimuli, feeding behavior, orientation, host plants, *Pinus contorta* 3000.
- Dendroctonus pseudotsugae**, phototaxis, light wavelength effects on 1883.
- Dendroica coronata**, foraging behavior, environmental effects, population levels, habitat, isolation 2689.
- Dendroica palmarum**, overwintering behavior, homing behavior, site location 659.
- Dendroica pensylvanica**, geographical distribution, effects on song variability 1159.
- Dendroica petechia**, foraging behavior, seasonal variations 3710. interspecific relationships, host-parasite interactions, defensive behavior, *Molothrus ater* 477. parental behavior, feeding behavior, food availability 3591.
- Dendroica pinus**, feeding behavior, substrate preferences, geographical variations, stereotyped behavior, Bahama Is. 368.
- Dendroica tigrina**, migrations, age effects, sex differences 655.
- Dendroica virens**, foraging behavior, environmental effects, population levels, habitat, isolation 2689.
- Dendroica vivens**, migrations, age effects, sex differences 655.
- Dendrolaelaps neodisetus**, mutualism, *Dendroctonus frontalis* 218.
- Dendromyrmex chartifex**, interspecific relationships, webs, construction, *Dendromyrmex fabricii* 1534.
- Dendromyrmex fabricii**, interspecific relationships, webs, construction, *Dendromyrmex chartifex* 1534.
- Denervation**, extrinsic syringeal muscles, vocalization behavior, frequency control, juveniles, chickens 783. larval line nerves, effects on social organization, schooling behavior, *Notemigonus crysoleucas* 2353.
- Dental enamel**, morphology, diets, paleoecology, 389.
- Dentate gyrus**, ESB, effects on memory, rats 3216.
- Dentate nucleus**, synergism, motor activity, neurophysiology, baboons 871.
- Deoxycorticosterone**, antagonism, adrenal gland steroids, extinction, avoidance behavior, rats 3313.
- Depolarization**, neurons, lateral geniculate nucleus, sleep (paradoxical), cats 1992. peripheral nervous system, drug effects, activity patterns rhythms, *Felis* 840.
- Deposits**, feeding, feeding behavior, efficiency, *Ocyrops* 280.
- Depression**, amphetamine, substantia nigra, self-stimulation, drug effects, lithium, rats 1003. emotional behavior, social interactions, juveniles, *Macaca mulatta* 1103. escape behavior, learned helplessness, rats 4464. fixed ratio schedule, emotional behavior, models, *Saimiri* 543. intracranial chemical stimulation, self-stimulation, drug effects, desipramine, rats 2118. learned helplessness, gamma-aminobutyric acid, drug effects, bicuculline 1950. locomotor activity, phorbol ester effects on, mice 2111. rats, avoidance learning, learned helplessness 1729. sleep (REM) deprivation effects on, rats 774. social behavior, isolation effects on, rhesus monkeys 1379. *
- Deprivation**, effects on flight activity ontogeny, chickens 1873. extinction, reinforcement schedules, rats 3896. food availability, effects on acoustic startle response, rats 4118. food availability, effects on predatory behavior, *Onychomys torridus* 3743. food availability, feeding behavior, body weight, rats 3742. food, chronic exposure, lead, effects on, locomotor activity, rats 1598. food, drugs, apomorphine, inducers, stereotyped behavior, rats 992. food, effects on homing behavior, rats 1626. food intake, energy intake, reinforcement schedules, preferences, feeding behavior, *Juncos hyemalis* 1467. food, intracranial self-stimulation, rats 2052. food, taste preferences, rats 3925.
- Deprivation, (continued)** incentive contrast, reinforcement, cues, response, hunger, rats 1703. mother-offspring interactions, aggressive behavior, rearing, *Papio cynocephalus* 3461. proteins, sociological aspects, ontogeny, maternal behavior, exploratory behavior, rats 524. sensory stimuli, effects on learning behavior, juveniles, ducks 1602. shift, operant conditioning, reinforcement, rats 2937. sleep, circadian rhythms, neurotransmitters, binding, forebrain, rats 1942. sleep, effects on sleep regulation, rats 4144. sleep (paradoxical), effects on intracranial self-stimulation, rats 4256. sleep (paradoxical), memory, methodology 767. sleep (REM), aggressive behavior, drug effects, apomorphine, rats 1005. sleep (REM), effects on aggression, drug effects, rats 1946. sleep (REM), effects on dopamine sensitivity, depression, rats 774. sleep (REM), effects on swimming behavior, rats 1945. sleep (REM), meal feeding, photoperiod, rats 769. social environment, effects on social behavior, sexual behavior, chickens 2911. stimuli, cues, operant conditioning, reinforcement, rats 545. thirst, orientation cues, discrimination learning, transfer learning, rats 742. water, food, reinforcement schedules, orientation, temporal discrimination, pigeons 1667. water, operant conditioning, rats 1696.
- Depth**, visual perception, cortex (visual) ablation effects on, cats 3059.
- Deserts**, mating behavior, role, visual stimuli, auditory stimuli, *Drosophila* 1267. predators, foraging behavior ecology, trophic relationships, *Lacertilia* 1559.
- Desipramine**, drug effects, intracranial chemical stimulation, self-stimulation, rats 2118. effects on dopamine receptors, locomotor activity, rats 933. effects on intracranial self-stimulation, rats 3294.
- Desmethylimipramine**, drugs, inducers, fighting, antidepressants, rats 993.
- Desmodus rotundus**, echolocation, sound production (biological), flight 1859.
- Desmognathus fuscus fuscus**, brood rearing, feeding behavior, diets 329.
- Desmognathus ochropheus**, parental behavior, foraging behavior, activity patterns, females 2522.
- Destruction**, inferior colliculus, neurophysiology, brain, echolocation, auditory perception, *Rhinolophus ferrumequinum* 669.
- Detection**, magnetic fields, *Oncorhynchus nerka* 649.
- Deterrents**, feeding behavior, host plants, *Pristiphora erichsonii* 313. feeding behavior, oils, acids, biochemical analysis, *Aleurites fordii*, *Anthonomus grandis* 300. mating behavior, cuticle lipids, *Glossina morsitans morsitans* 3516. mating behavior, sex pheromone, homosexuality, *Glossina morsitans*, *Musca domestica* 116. oviposition, intraspecific relationships, *Rhagoletis basiola* 1130. oviposition, pheromones, population density, *Atherigona soccata* 1252. oviposition, plant extracts, *Thuja plicata*, *Hylemya antiqua* 2638.
- Detritus**, food preferences, diets, *Anisodoris nobilis* 2622.
- Detritus feeders**, organic matter ingestion, sediments, *Nucula annulata* 2613.
- Development**, acetylcholine neurons, scopalamine effects on avoidance behavior, rats 4347. brain, avoidance learning, mice 1760. brain, psychotropic drugs effects on, rats 3263. cardiac conditioning, juveniles, cats 1623. central nervous system, activity patterns, sulfanilic acid effects on, rats 4311. hippocampus, avoidance learning, reinforcement schedules, juveniles, rats 1730. juveniles, vocalization behavior, mother-offspring interactions, *Molossus molossus* 2550. life cycle, population dynamics, chemotaxis, hosts, Simuliidae, *Mammalia* 645. mortality, predators, foraging behavior, larvae, *Chrysopa carnea*, *Hippodamia convergens* 1429. motor activity, triphenyl intrauterine exposure effects on, rats 4307. neurons responsiveness, sleep and wakefulness, rats 775. orientation, visual perception, cortex (visual), juveniles, cats 861. ovary, dispersal flight, *Hippodamia convergens* 3793. oviposition, mating behavior, life history, *Langur rector* 139. scent gland, scent marking behavior, castration effects on, *Saguinus fuscicollis* 244. sleep, EEG, infants 777. social behavior, chemical stimuli effects on, saliva, *Meriones unguiculatus* 242. swimming behavior, embryos, *Echinodonta* 672. swimming behavior, embryos, *Hemicentrotus pulcherrimus* 3032. swimming behavior, paint thinner intrauterine exposure effects on, rats 1607.
- Developmental stages**, food preferences, juveniles, *Deltonosteus quadrimaculatus* 1453. temperature preferences, feeding behavior, *Crocodylus novaeguineae* 458.
- Dexamethasone**, antagonism, adrenal gland steroids, extinction, avoidance behavior, rats 3313.
- Dexamphetamine**, effects on locomotor activity, 6-hydroxydopamine lesions, rats 890.
- Dexoadrenal**, self-stimulation, reinforcement, monkeys 3232.
- Dextrose**, food preferences, hamsters 1504.
- DFF**, effects on apomorphine sensitivity, climbing, mice 990.
- Di-n-propylacetate**, drugs, effects on γ -aminobutyric acid distribution, convulsions, aggressive behavior, mice 4348.
- Diabetes**, effects on naloxone sensitivity, food intake, mice 4164.
- Diabetes insipidus**, water intake, naloxone effects on, rats 2125.
- Diactis obliqua**, feeding behavior, cannibalism, larvae 321.

Diadassa afflicta.

foraging behavior, pollinators, nesting behavior, USA, Texas 3519

Diapause.

fertility, competition, males, *Anthonomus grandis grandis* 1269

Diapomys.

food organisms, predation, *Neomysis mercedis*, USA, Washington, Washington L. 266

Diazepam.

binding, benzodiazepines receptors, central nervous system, emotional behavior,

rats 4309

discrimination learning, pentobarbitone, benzodiazepine antagonists, Ro 15-1788,

rats 4359

drug effects, avoidance behavior, learning behavior, memory, age effects, rats

972.

drug effects, conditioned defensive burying, behavioral paradigms, rats 2160.

drug effects, schedule-induced behavior, operant response, shock, rats 2126.

effects on activity patterns, exploratory behavior, rats 976

effects on conditioned suppression, motor activity, shock, rats 4392.

effects on emotional behavior, shock 1020

effects on exploratory behavior, mice 1017

effects on exploratory behavior, rats 4364

effects on fear conditioning, rats 4374

effects on feeding behavior, rats 4365

effects on memory, rats 3231

effects on novelty fear, feeding behavior, conflict behavior, rats 4368

effects on sleep (paradoxical), hippocampus EEG, theta rhythms, rats 1947

Dichocrocis punctiferalis.

feeding types, reproductive isolation, mating behavior, Japan 1256

Dichoptera hyalina.

parasites, host specificity, Dryinidae 117

Dicrotophas.

pollution effects, parental behavior, breeding success, *Sturnus vulgaris* 3586

Dicrurus hottentotus.

diets, foraging behavior, niche pattern 2712.

Dietras.

social organization, territorial behavior, silk repellents 1361

Dietryoploca japonica.

pheromones, effects on males activity patterns, interspecific relationships,

Philosamia cythia 1145

Didelphis marsupialis.

diets effects on dental enamel morphology 389

Didelphis.

brain size effects on demography, habitat preferences, life span 790

Diel activity.

drift, nymphs, *Atalapha bioides*, Australia 434

seasonal variations, flight activity, *Culicoides varipennis*, *Culicoides*

crucians, *Culicoides herzoglyphicus*, *Culicoides palmerae*, USA, Colorado 680

sex differences, *Tamiasciurus hudsonicus*, Canada, British Columbia 2860

vertical migrations, spatial distribution, host plants, *Acyrtosiphon gossypii*

2814

Diel periodicity.

temperature effects, trail following behavior, *Indomymex purpureus*, Australia

1553

Diel variations.

activity patterns, burrowing behavior, *Geolycosa domfex* 431

activity patterns, *Chasmodon bosquianus*, *Opsanus tau* 2830

activity patterns, foraging behavior, diets, *Procyon lotor* 2746

activity patterns, horizontal distribution, vertical distribution, *Xiphias*

gladius 1595

activity patterns, movements, *Scapanus orarius* 2853

activity patterns, thermoregulatory behavior, *Agkistrodon contortrix* 2K18

burrowing behavior, vertical migrations (tidal rhythm), *Nemta pelia* 2770.

crop content, feeding behavior, seasonal variations, *Tetraodon* 2694

diets, *Oncorhynchus kisutch*, *Salmogardien* 2669

feeding behavior, energetics, chickens 1722

feeding behavior, predation, *Ardea herodias* 2699

feeding behavior, *Siphonophora*, *Sargasso Sea*, USA, Washington Coast 278

meal feeding, sleep (REM) deprivation, rats 769

metabolism, polysaccharides, activity patterns, *Ozotophelus senex senex* 749

migrations, *Nemobius sylvestris* 636

nesting behavior, aggregation behavior, *Larus californicus*, *Larus delawarensis*

88

oviposition, hatching, eggs, adult eclosion, *Athergona soccata* 3093

photoperiods, circadian rhythms, sexual behavior, oviposition, *Culex*

quinquefasciatus 1237.

photoperiods, mating behavior, *Chilo suppressalis* 1274

prey spatial distribution, effects on foraging behavior, predator-prey

interactions, *Parulidae* 2690

sexual behavior, *Amyeloeis transistella* 2413.

social behavior, activity patterns, sleep, feeding, *Alouatta seniculus*, Venezuela

3866

thermoregulatory behavior, *Bubalus bubalis* 3818.

vertical distribution, zooplankton, *Gennadas*, *Bentheogennema*, Gulf of Mexico

1404

vocalization behavior, *Canis latrans* 3435

vocalization behavior, *Indri indri* 2314

Diencephalon.

ESB, intracranial self-stimulation, operant conditioning, rats 4255.

Diets.

anterior dental microwear, *Pan troglodytes troglodytes*, *Gorilla gorilla gorilla*,

Papio hamadryas 4437.

avoidance behavior, escape behavior, hypertension, rats 1957

biochemical characteristics, *Colobus angolensis* 2768.

chromium, effects on avoidance behavior, *Anas rubripes* 2949.

conspecifics, effects on reproductive behavior, growth 2735.

diel variations, *Oncorhynchus kisutch*, *Salmogardien* 2669

effects on dental enamel morphology, paleoecology, *Didelphis marsupialis*,

Sivapithecus 389

effects on flight activity, *Simulium ornatum* 3039

effects on maze learning, amino acids, rats 1954.

effects on sexual behavior, aging, males, mice 3575.

feeding behavior, activity patterns, *Otocyon megalotis* 2761.

feeding behavior, *Anisodorus nobilis* 2622.

feeding behavior, autecology, *Pan paniscus*, *Zaire* 3762.

feeding behavior, *Balaeniceps rex* 2705.

feeding behavior, breeding success, forests, *Parus major minor*, Japan 1308.

feeding behavior, brood rearing, *Desmognathus fuscus fuscus* 329.

Diets, (continued)

feeding behavior, *Callinectes arcuatus*, *Callinectes toxotes* 2614

feeding behavior, *Cancer irroratus*, Canada, Nova Scotia Coast 2605

feeding behavior, *Cancer irroratus*, Canada, Nova Scotia Coast 2605.

feeding behavior, coastal environment, *Aonyx capensis* 2749.

feeding behavior, *Coccinellidae* 2644.

feeding behavior, *Collocalia esculenta* 2708

feeding behavior, *Ditrema vaudini*, *Ditrema temminki*, *Neoditrema ransonneti* 1451

feeding behavior, diurnal variations, periodicity, *Oncorhynchus kisutch*, *Salmogardien* 345

feeding behavior, dominance, range, comparative studies, *Meliphagidae*, New

Zealand 403

feeding behavior, echolocation, *Antrozous pallidus* 3736

feeding behavior, effects on gonads, *Zonitochia leucophrys gambeli* 3549.

feeding behavior, *Ermacrus autumnus*, USSR, *Zaunguskiye Karakumy* 3822.

feeding behavior, *Eumetopias jubatus* 1495

feeding behavior, *Eurydice affinis*, British Isles, England Coast 3663

feeding behavior, *Falco chichquera*, Zambia 1565.

feeding behavior, food availability, Meles meles, British Isles, Scotland 1497

feeding behavior, food preferences, *Colodactylus amazonicus* 2661

feeding behavior, food sources, *Balaena mysticetus*, USA, Alaska Coast 2759.

feeding behavior, *Hylobates klossii* 2767

feeding behavior, *Ilyanassa obsoleta* 1409

feeding behavior, interspecific relationships, *Lutra lutra*, *Mustela vison*,

British Isles 380

feeding behavior, *Larus audouini*, *Larus argentatus michahelis* 3705.

feeding behavior, larvae, *Anchoa mitchilli*, *Anchoa lamprotaenia* 2685

feeding behavior, lithium chloride, aversion, bait shyness, *Canis latrans* 391.

feeding behavior, *Loigio pealei* 2603.

feeding behavior, *Lophogobius cynipoides* 2671

feeding behavior, *Lophogobius cynipoides*, Florida Coast 1459.

feeding behavior, *Meliphaga virescens*, *Eremiornis carteri*, *Malurus leucopertus*

leucopertus 2714

feeding behavior, *Ophiura texturata*, Denmark, Oeresund, Denmark, Isefjord 1397.

feeding behavior, phenology, food availability 2765

feeding behavior, *Pisces* 2684

feeding behavior, *Potamochoerus porcus* 2753.

feeding behavior, predation, *Acipenser gentilis*, Sweden 1480.

feeding behavior, rangelands, *Lepus californicus* 2758

feeding behavior, *Rhinopoma microphallum kincairdi*, India, Rajasthan Desert 2740.

feeding behavior, *Rodentia* 1498

feeding behavior, seasonal variations, *Peneus monodon* 3659.

feeding behavior, seasonal variations, *Poronotus pelagicus*, India 1392

feeding behavior, seasonal variations, *Procyon lotor*, Canada, Quebec 2737.

feeding behavior, *Sebastes seranoides* 1456

feeding behavior, *Sirenia* 386.

feeding behavior, *Sorex minutus*, *Sorex araneus*, British Isles 1519

feeding behavior, *Sterna hundo* 3706

feeding behavior, *Sterna hundo*, *Sterna paradisaea*, *Larus philadelphia*, Canada,

New Brunswick, Deer I. 2700

feeding behavior, stomach content, *Hemulter eigenmanni*, USSR, *Khanka L.* 1455.

feeding behavior, stranding, *Hypogobius benoitii*, *Mycophorum punctatum* 3695

feeding behavior, summer, *Lagopus lagopus*, *salix* 1474

feeding behavior, *Tadania acyptiplica thomasi*, *Insecta* 2744

feeding behavior, taste preferences, amino acids, *Suncus murinus* 3733.

feeding behavior, territorial behavior, coral reefs, *Pisces*, Japan Coast 1461

food availability, habitat, *Parurus bairmieri* 2698.

food availability, habitat preferences, seasonal variations, Meles meles, Italy

1494

food availability, *Mustela vison*, *Lutra lutra* 2750.

food intake circadian rhythms, sucrose effects on, rats 3750

food organisms, feeding behavior, *Anthus spinoletta* 3707.

food organisms, *Furina*, *Glyphodon* 1443

food preferences, bacteria, *Harpacticoida* 3660

food preferences, *Claudium perlatum*, South Africa, Etosha National Park 3713

food preferences, developmental stages, water depth, juveniles, *Deltentosteus*

quadrifasciatus 1453

food preferences, feeding behavior, *Ehala tuberosa* 288

food preferences, feeding behavior, estrus cycle, ovary ablation, rats 397.

food preferences, nutrient requirements, chickens, laying hens 1466.

food preferences, *Ovis canadensis*, USA, Montana 382

food preferences, seasonal variations, *Peromyscus maniculatus* 2748.

food preferences, seasonal variations, *Spermophilus townsendii* 2751

foraging behavior, activity patterns, diel variations, *Procyon lotor* 2746.

foraging behavior, home range, *Proteles cristatus*, Namibia, Namib Desert 3756

foraging behavior, niche pattern, *Dicrurus hottentotus* 2712

foraging behavior, *Rattus rattus* 2763

foraging behavior, *Spansoma radianus* 2676

fruits, evolution, food webs, feeding behavior, *Antrozous pallidus* 1493.

functional morphology, feeding behavior, *Cassida* 2625

grazing, food preferences, nutrition, cattle 1499

grazing, olfactory bulb ablation effects on, sheep 4223

growth, feeding behavior, *Poecilia reticulata* 335

habitat utilization, movements, *Ophiodon asotus* 3800

hematophagy, 15 families, Diptera, Sweden 2637

herbivores, *Cynomys ludovicianus* 2762.

herbivory, feeding behavior, seasonal variations, *Platyercus eximius*,

Platyercus adscitus, Australia 1472.

home range, *Carimora* 2754.

imprinting, predatory behavior, growth, *Homalozoon vermiculare* 265.

nutrition, lesions, hypothalamus (dorsomedial), juveniles, rats 892

palatability, effects on norepinephrine feeding behavior, rats 1511.

phosphatidyl choline, effects on avoidance learning, mice 3120.

predation, *Coralliphila abbreviata*, *Coralliphila canbana*, *Cnidaria* 2624

predation, food consumption, *Felis caracal*, South Africa 2738.

predatory behavior, *Colomys goslingi*, Africa 2742

predatory behavior, optimization, mathematical models 3652.

predatory behavior, prey species diversity, *Chaetodon capistratus*, *Chaetodon*

aculeatus 2681

protein deficiency, effects on learning behavior, rats 1793.

protein deficiency, effects on visual perception, *Maccaca mulatta* 1899.

ranging behavior, *Colobus badius rofulromitratus*, Kenya 1576.

reproductive behavior, food availability, *Asio otus*, British Isles, Scotland

1468.

Rhinoceros unicornis, Nepal, Chitawan Valley 3826.

- Diets, (continued)**
seasonal variations, feeding behavior, *Clethrionomys gapperi*, Canada, Ontario 1741
seasonal variations, Tadorna tadorna, British Isles, Scotland 353.
seasonal variations, Tadorna tadorna, Hydrobia 352
serotonin, effects on escape behavior, rats 2002
sex pheromone, courtship role, biochemical analysis, *Utetheisa ornatrix* 1152.
short-term variations, effects on motor activity, rats 1500
taste aversion learning, *Dipodomys merriami*, *Dipodomys microps* 3982
tryptophan, aggressive behavior, lesions, septum, rats 2022.
variation, juveniles, adults, *Pollicipes polymerus* 3658.
vertical migrations, Gennadas, Benthogennema, Gulf of Mexico 1404.
- Digestion,**
feeding behavior, environmental factors, sheep 387.
grasses, grazing, cattle 398.
- Digestive tract,**
functional morphology, food preferences, *Ateles geoffroyi*, *Alouatta palliata* 417
morphology, feeding behavior, *Sirenia* 386
- 5 α -Dihydrotestosterone,**
effects on sexual behavior, sound production, *Coturnix japonica* 4401
- 5 β -Dihydrotestosterone,**
effects on sexual behavior, chickens 2482
- 5,7-Dihydroxytryptamine,**
effects on, operant response, rats 1039.
lesions, hypothalamus, effects on muricide, rats 4246.
- 2,5-Dimethoxy-4-methylamphetamine,**
antagonism, drug effects, metergoline, operant response, rats 2134.
- Dimethylmercury,**
nervous system toxicity, effects on social behavior, rats 4328.
- Dimorphism,**
isolation, sympatric populations, sexual behavior, courtship, *Aechmophorus occidentalis* 172
social behavior, raptors, *Aves* 3619
- Diorcetryia amatella,**
males, bioassays, pheromones response, sexual behavior 115.
mating behavior, oviposition, activity patterns, host plants effects on 1258.
- Diorcetryia discalis,**
catching methods, sex pheromone, bait, traps, USA, South Carolina 639.
- Diphenylhydantoin,**
effects on avoidance learning, rats 3272.
- Diplazon pectoratorius,**
courtship, swarming, sex pheromone 2410.
- Dipodidae,**
comfort behavior, cleaning behavior 492.
- Dipodomys merriami,**
chemical communication, intraspecific relationships, sandbathing, olfactory perception, *Dipodomys microps* 2308.
taste aversion learning, diets, feeding behavior 3982.
- Dipodomys microps,**
chemical communication, intraspecific relationships, sandbathing, *Dipodomys merriami* 2308.
taste aversion learning, diets, feeding behavior 3982.
- Dipodomys ordii,**
habitat utilization, activity patterns, moonlight effects on 2867
mating behavior, copulation, USA, Kansas 2503.
- Dipropyli disulfide,**
oviposition attractancy, EAG responses, chemoreception, *Hylemyia antiqua* 1286
- Diptera,**
feeding behavior, hemophagy, 15 families, Sweden 2637.
flight activity orientation, ocelli effects on 633.
resting behavior, diurnal variations, physical activity, environmental effects, temperature, humidity 2787.
- Dipus sagitta,**
comfort behavior, cleaning behavior 492.
- Discrimination,**
age, body size, mate selection, courtship, *Pteris protodice* 2397.
conditioning, vocalization behavior, social behavior, lesions, cortex (cingulate), *Macaca mulatta* 804.
drugs, training, operant response, rats 1092.
ESB, generalization, rats 4264.
ESB, hypothalamus (medial), central gray, rats 4261.
haze, oviposition experience, *Pteris rapae crucivara*, *Apanteles glomeratus* 3504.
mechanical stimuli, wind, escape behavior, *Periplaneta americana* 1906.
- Discrimination learning,**
acquisition, reinforcement schedules, rats 1782.
alcohol preferences, rats 4285.
appetitive conditioning, rats 2940.
appetitive conditioning, retention, rats 4002.
appetitive conditioning, vasopressin effects on, rats 4175.
auditory discrimination, rats 2969.
autoshaping, reinforcement, signals, food, pigeons 1655.
avoidance learning, acquisition, extinction, *Carassius auratus* 3990.
avoidance learning, reversal learning, shock, cues, color, *Carassius auratus* 2948.
benzodiazepine antagonists, Ro 15-1788, effects on, diazepam, pentobarbitone, rats 4359.
biochemical transfer, mRNA, rats 4166.
body odors production, reinforcement 3903.
brain ablation, cortex, neurophysiology 598.
brain lesions effects on, rats 595.
cadmium effects on, rats 4300.
classical conditioning, second-order schedule, pigeons 540.
cognitive ability performance, iron deficiency, rats 590.
color, Hymenoptera 2960.
cortex (visual) lesions, early experience effects on, cats 2056.
cross-modal transfer learning, temporal perception, rats 2972.
CS, effects on stress, cats 352.
delayed response, changeover delay, reinforcement schedules, variable interval schedule, pigeons 1670.
discriminative stimuli, pentobarbital, pigeons 3226.
drug effects, naloxone, inbreeding, strains, mice 996.
drug effects, physostigmine, atropine, rats 1006.
drug effects, pigeons 4349.
drugs, γ -hydroxybutyrate, rats 3278.
drugs, pentobarbitone, rats 1010.
fornix ablation effects on, rats 2039.
- Discrimination learning, (continued)**
generalization, memory, pigeons 2968.
genetic factors, mice 2885.
illumination, matching-to-sample, pigeons 1779.
interference, pigeons 1778.
interference, retention, pigeons 4019.
interstimulus interval duration, visual stimuli effects on, pigeons 1774.
interval retention, rats 3999.
isomers, opioids, rats 2139.
lesions, hippocampus, neonates, rats 4229.
matching-to-sample, identification, pigeons 587.
matching-to-sample, short term memory, pigeons 2987.
maze learning, cattle 1785.
maze learning, measuring techniques, mice 2201.
mechanical stimuli, object detection, *Anoplocheilichthys jordani* 3076.
memory, interference, reversal learning, retention, pigeons 1809.
memory, recognition, brain, right hemisphere, man 617.
models, matching-to-sample, pigeons 588.
motivation, thirst, orientation cues, rats 742.
neonates, X-radiation, hippocampus, rats 1955.
nicotine intrauterine exposure effects on, guinea-pigs 4305.
noise intensity effects on, rats 722.
occasion-setting, rats 4000.
performance, early experience effects on, rats 593.
performance, septum lesions, stimulus preexposure, rats 4007.
pimozide effects on, *Columba* 934.
preferences, retention, reinforcement, *Macaca mulatta* 1709.
prey, attack, rats 2331.
recovery of function, brain damage, rats 2038.
reinforcement manipulation, tranquilizers, rats 1790.
reinforcement schedules, rats 1788.
reinforcement schedules, stimulus duration, pigeons 3994.
reinforcement, serial feature-positive discrimination, appetitive conditioning, rats 1701.
reversal learning, *Triturus viridescens* 3988.
serial anticipation learning, memory, rats 4014.
serial pattern learning, alphabet, rats 2974.
serial reversal learning, potentiation, pigeons 2978.
shock sensitivity, morphine effects on, rats 989.
short term memory, retention intervals, pigeons 3992.
short-term memory, delayed reinforcement, operant response, pigeons 2986.
sound, pigeons, *Agelaius phoeniceus*, *Molothrus ater* 1771.
stimuli duration effects on, pigeons 389.
stimulus control, blocking, pigeons 2932.
stimulus control, conspecifics, communication, pigeons 1653.
stimulus control, morphine, cyclozinc, rats 1791.
stimulus control, multiple schedule, pigeons 3991.
stimulus control, operant conditioning, classical conditioning, pigeons 3921.
stimulus control, operant response, serial learning, pigeons 1772.
taste aversion learning, drugs, rats 3960.
taste discrimination, reversal learning, rats 592.
taste discrimination, sweeteners, rats 3084.
timing, pyruthamine effects on, mice 3236.
transfer learning, acquisition, performance, rats 4001.
transfer learning, rats 1787.
trials, variable interval schedule, behavioral contrast, rats 4006.
visual discrimination, color, *Sturnus vulgaris* 2966.
visual discrimination, lesions, cortex (temporal), rats 2033.
visual perception, species recognition, juveniles, chickens 1776.
vocalization behavior, conditioning, operant response, monkeys 1799.
- Discriminative stimuli,**
concurrent schedule, variable interval schedule, operant response, response matching, stimulus control, pigeons 1673.
hallucinogens, drug effects, rats 2158.
memory, operant response, delayed response, matching-to-sample, children 1831.
pentobarbital, discrimination learning, pigeons 3226.
- Discriminative stimulus,**
ability, etorphine, meperidine, morphine, codeine, monkeys 1021.
- Disease resistance,**
brood disease, larvae removal, workers, *Apis mellifera* 7885.
- Disease transmission,**
orientation behavior, chemical stimuli, *Schistosoma mansoni*, *Biomphalaria* 626.
- Dispersal,**
aggregation, foraging behavior, cattle 3350.
colonization, habitat selection, population density, intraspecific relationships, *Peromyscus maniculatus*, Canada, British Columbia, Mandarte I. 90.
feeding behavior, activity patterns, mating behavior, *Batocera lineolata* 1593.
flight activity, life cycle, *Hypera postica* 4067.
flight activity, seasonal variations, *Tetraopis tetraopthalmus*, USA, Vermont, USA, New Hampshire 681.
flight, ovary development, environmental factors, *Hippodamia convergens* 3793.
home range, social interactions, breeding behavior, burrowing behavior, *Gopherus polyphemus*, USA, Georgia 510.
juveniles, social behavior, parental behavior, environmental effects, habitat, *Mammops flaviventris* 239.
larvae, mating behavior, *Centropage* 2455.
migrations, sex differences, age, *Canachites canadensis* 664.
nymphs, legumes, *Nezara viridula*, *Piezodorus guildinii*, Brazil 438.
patoxialis, larvae, *Hydropsyche cockerelli*, USA, Columbia R. 3004.
reproductive behavior, reproductive strategy, *Alouatta palliata* 3579.
seeds, fruits, frugivores, coevolution 2597.
social behavior, intraspecific relationships, reproductive behavior, *Apelocoma coeruleus insularis* 230.
social organization, population structure, *Papio cynocephalus*, Tanzania 1381.
territorial behavior, *Calopteryx cornelia*, Japan, Fukuoka, Muroi R. 3464.
- Dispersion,**
flight, measuring techniques, *Tetraopis tetraopthalmus* 1862.
parental behavior, brood rearing, *Branta canadensis* 201.
pheromones, effects on larvae, intraspecific relationships, *Blattella germanica* 26.
- Displacement activity,**
chewing, fluphenazine decanoate side effects, rats 968.
- Display,**
agonistic behavior, *Sitta carolinensis* 2328.
agonistic behavior, social interactions, *Oplurus quadrimaculatus*, *Oplurus grandidieri*, *Oplurus fernensis*, *Oplurus cyclurus*, *Oplurus cuvieri cuvieri*,

Display, (continued)

- Madagascar 3613
alarm behavior, predators effect on, *Oplurus grandidens*, *Oplurus cyclurus* 2284
copulation, song, mate selection, *Zootrichia leucophys orantia* 3399
courtship, agonistic behavior, use, systematics, *Salicidae* 3378
courtship, lek, *Chirotopha caudata* 1313
courtship, mating behavior, age effects, *Aix galencula* 1316
courtship, pair bond chronology, vocalization, *Aix sponsa* 1315
courtship, *Platycephalus fitzsimoni*, *Chlorocypha consuetia*, *Rhinocypha unimaculata* 2431
courtship, stereotyped behavior, *Uca minax*, *Uca pugnax* 3377
grooming, juveniles, *Molothrus ater* 38
mating behavior, activity patterns, *Eldana saccharna* 1251
mating behavior, *Podiceps nigricollis* 3542
migrations, *Balania mystecus*, USA, Alaska Coast 3024
pair bond, sexual behavior, social behavior, *Trichoglossus* 1156
social behavior, *Bonasa umbellus* 2577
social behavior, conspecifics, interspecific relationships, *Phrynosoma*
 platyrhinos, *Phrynosoma coronatum* 3612
social behavior, sexual reproduction, *Gelochelidon nilotica* 2296
social behavior, smiling, man 1383
social hierarchy, feathers, plumage, *Paradisaea decora* 44
social interactions, mate selection, *Macaca fuscata* 51
stereotyped behavior, *Phrynosoma* 3394
threatening behavior, dogs 3451
threatening behavior, *Psocis* 2322
vocalization behavior, *Herpestes sanguineus* 3436
wagtail dance, food sources, orientation, sky, *Apis florea* 3383
wing-flucking behavior, *Saxicola torquata* 3421
- Disruption,**
 maichung-to-sample, acquisition, reinforcement, pigeons 1777
- Dissociation,**
 reinforcement, hypothalamus electrical stimulation, appetitive conditioning, rats 918
 threshold, detection threshold, drug effects, cocaine, intracranial self-stimulation, *Rattus rattus* 958
- Dissostera carolina,**
 mating behavior, aggressive behavior, sound production (biological) 143
- Distance,**
 tactile perception, skin 4096
- Distichilis,**
 habitat preferences, nesting behavior, *Ammospiza maritima* 420
- Distress,**
 infants, mother-offspring interactions, separation effects on, *Macaca mulatta* 209
 vocalization behavior, ecological distribution, Aves 2291
 vocalization behavior, endorphins effects on, guinea pigs 49
 vocalization behavior, neonates, chickens 3406
 vocalization behavior, opiates effects on, juveniles, chickens 785
 vocalization behavior, *Passeriformes* 2298
- Distribution,**
 behavior, reproduction effects on, *Ocotopus vulgaris* 81
 evolution, song, vocalization behavior, *Phylloscopus* 43
 juveniles, comparative studies, *Coregonus artedii*, *Coregonus clupeaformis*, Canada, James Bay 648
 nesting behavior, *Oryzomys palustris* effects on, sympatric populations, *Ammospiza maritima* 420
 vertical migrations, mating behavior, *Pleuronomamma piscu* 422
- Disturbance,**
 effects on stridulation, defense mechanisms, *Megaloblatta blaberoides* 2316
 human impact, activity patterns, *Ovis canadensis canadensis* 2863
- Ditrema temminckii,**
 feeding behavior, diets, food availability 1451
- Ditrema viridis,**
 feeding behavior, diets, food availability 1451
- Diurnal variations,**
 activity patterns, burrowing behavior, environmental factors, *Bufo amercianus*, Canada 1558
 activity patterns, comparative studies, *Crocodylinae* 494
 activity patterns, feeding behavior, social interactions, *Cercopithecus cephus* 498
 activity patterns, littoral zone, *Littorina intermedia*, India Coast 1530
 activity patterns, *Macrobrachium rosenbergii* 4065
 activity patterns, marine fauna, *Xiphias gladius* 471
 activity patterns, mathematical models, *Odocoileus virginianus* 2861
 activity patterns, weather effects on, *Rodentia*, Canada, Quebec 483
 activity patterns, dust baths, domestic animals, *Gallus gallus* 4138
 cleaning behavior, dust baths, domestic animals, *Gallus gallus* 4138
 drinking behavior, mice 4141
 egg laying, nesting behavior, *Caretta caretta*, USA, Florida Coast 3523
 exploratory behavior, parasites, silk, exposure time, *Apanetes melanoscelus*, *Lymantria dispar* 450
 feeding behavior, activity patterns, *Echinodermata*, Jamaica, Discovery Bay 3662
 feeding behavior, diets, *Erinaceus auritus*, USSR, Zauzgunskiy Karakumy 3822
 feeding behavior, diets, *Oncorhynchus kisutch*, *Salmo gairdneri* 345
 feeding behavior, food composition, environmental factors, larvae, *Gempylus serpens* 342
 feeding behavior, food composition, Teleostei, Madagascar 1473
 feeding behavior, food preferences, *Lissodelphis peroni*, Chile Coast 393
 feeding behavior, *Lucania migratoria* 3676
 feeding behavior, photoperiods, *Anser* 1465
 feeding behavior, rhythms, *Pandalus kessleri*, Japan Sea, Peter the Great Bay 4130
 flight activity, feeding behavior, *Helicoverpa armigera* 431
 flight activity, feeding behavior, light intensity, *Trichilidae*, Brazil 2734
 flight activity, *Tortricidae* 684
 flight activity, traps, *Tortricidae* 1084
 flight, light, mobility, *Helicoverpa armigera* 3097
 grooming, *Macaca fuscata fuscata* 3648
 horizontal distribution, environmental factors, *Acipenser transmontanus*, USA, Columbia R. 470
 hyperactivity, swimming, pollution effects, DDT, *Platichthys flesus*, Baltic 511
 light sensitivity, electroretinograms, pigeons 720
 locomotor activity, measuring techniques, *Thanasimus dubius* 1867
 migrations, horizontal distribution, zooplankton, *Mastigias*, Caroline Is., Palau 627
 movements, host plants, thermoregulation, *Dactyloctenium aegyptium* 2790

Diurnal variations, (continued)

- nectar secretion, effects on feeding behavior, *Brassica campestris*, *Apis* 303
oviposition, aggregation, environmental factors, *Zonocerus variegatus* 1280
periodicity, spawning behavior, *Labridae* 2451
physical activity, resting behavior, environmental effects, temperature, humidity, *Diptera* 2787
predatory behavior, *Callinectes arcuatus*, *Callinectes toxotes* 2614
sound production (biological) patterns, *Glossina morsitans* 6
sound production, tropical environment, *Cicadidae* 2267
- Diving,**
 energy budget, feeding behavior, *Aptenodytes patagonicus* 1478
 feeding behavior, energy budget, females, *Arctocephalus gazella*, Falkland Is. 1496
 stress, cardiovascular system, *Ondatra zibethica* 3770
- Diving behavior,**
 auditory perception, visual perception, learning, *Pinnipedia* 2903
- Division of labor,**
 feeding behavior, caste differentiation, social organization, *Pogonomyrmex* 1362
 nesting behavior, colonial characteristics, *Melipona favosa* 2521
 reinforcement, dominance, rats 2945
- DL-cathinone,**
 gustatory stimuli, taste aversion learning, rats 3962
- DNA,**
 content, mating behavior correlation, *Atta laevigata* 130
- DNA biosynthesis,**
 limbic system, reflexes conditioning effects on, rabbits 786
- Dogs,**
 aberrant behavior, age, behavior therapy 4455
 aggressive behavior, behavior therapy 4458
 associative learning, stimulus quality 4005
 behavioral genetics, reviews 1585
 cardiac conditioning, aversion learning, blood flow 1766
 cardiac conditioning, blood circulation, intrauterine exposure 1619
 classical conditioning, transfer learning, aversion learning, conditioned excitation, conditioned inhibition 1752
 cognitive ability, problem solving 2979
 conditioned response, hippocampus, electrical stimulation 922
 conditioned response, visual stimuli, recognition, visual discrimination learning 596
 cortex, conditioned response, EEG, neurophysiology 858
 cortex (sensorimotor) ablation, effects on motor skill 897
 display, threatening behavior 3451
 drinking behavior, water intake, feeding, food intake 1514
 eliazepam, effects on, feeding behavior, food intake 2152
 ESB, hippocampus, operant conditioning, defense 3212
 fear, disinhibitory effect, analogs, theories 2228
 feeding behavior, activity patterns 384
 feeding behavior, taste preferences, obesity 1917
 imipramine, locomotor activity, social interactions, imipramine effects on 1014
 learning behavior, reinforcement 1705
 maternal behavior, chemical stimuli, amniotic fluid 3595
 natriurid hydrochloride effects on activity patterns 2097
 neonates, perception, ontogeny 2919
 pets, selection, temperament 4456
 psychotropic drugs effects on avoidance learning, escape behavior 2096
 ranging behavior, social behavior, urban environments 2216
 retention, taste aversion learning 570
 selectivity, association, theories 2187
 social behavior, social organization, domestication effects on 3633
 stereotyped behavior, choice learning, conditioned response 577
 thermoregulatory behavior, panting 493
 veterinary medicine, therapy, defecation 3345
- Dolichonyx oryzivorus,**
 parental behavior, males, feeding, offspring, secondary nestings, nutritional status, food availability 1346
- Dolichovespula saxonica,**
 queens, nest building, nesting behavior 2780
- Domestic animals,**
 behavior, bibliographies 4460
 cleaning behavior, dust baths, diurnal variations, *Gallus gallus* 4138
 ethology, horses, senses 1099
 feeding behavior, reproductive behavior, social behavior, agricultural practices 4444
 selection, pets, temperament, dogs 4456
 social behavior, sexual behavior, behavioral genetics, dominance, males, cattle 182
- Domestication,**
 agonistic behavior, aggression, genetic factors, rats 1212
 effects on alarm behavior, vocalization behavior, juveniles perception, *Anas platyrhynchos* 508
 effects on social behavior, social organization, *Canis lupus lycaon*, dogs 3633
 evolution, genetic factors 1581
 husbandry, *Djalnake* sheep 3349
 social behavior, agonistic behavior, aggression, *Rattus norvegicus* 1203
- Dominance,**
 aggressive behavior, inheritance, *Lagopus lagopus scoticus* 2326
 aggressive behavior, intraspecific relationships, *Phymacis clematis*, Chile 1188
 aggressive behavior, males, copulation, mating behavior, *Bulbulcus ibis* 1298
 aggressive behavior, rats 3456
 aggressive behavior, recognition, *Potomom fluviatile* 93
 aggressive behavior, seasonal variations, social interactions, males, *Macaca fuscata* 193
 agonistic behavior, breeding success, males, *Papio* 2377
 coloration, agonistic behavior, *Coreoperca kawame* 3483
 competition, food availability, *Ictalurus nebulosus* 2373
 courtship, aggressive behavior, males, *Epicauta pennsylvanica* 2396
 division of labor, reinforcement, rats 2945
 feeding behavior, food composition, comparative studies, *Meliponidae*, New Zealand 403
 females, effects on sexual behavior, aggressive behavior, males, *Miopithecus talapoin* 3573
 hashish, acute toxicity, chronic effects, mice 941
 males, fitness, infanticide, *Macaca mulatta* 1214
 males, parasites effects on, *Heligmosomoides polygyrus*, mice 1230
 mating behavior, males, *Mirounga leonina* 1211

Dominance, (continued)

- phenology, birds of prey, Bavaria, census 1229.
sexual selection, sexual dimorphism, task function, males, *Monodon monoceros* 2487.
sleep (REM), deprivation, females, mice 1944.
social behavior, aggression, sex differences, *Meriones hurrianae* 1368.
social behavior, aggressive behavior, *Chaetodontidae*, *Acanthuridae* 3616.
social behavior, agonistic behavior, antagonism, strains, chickens 2206.
social behavior, castes, colonies, *Bombus terrestris* 2371.
social behavior, females, *Herotiapiia multipinnosa* 1364.
social behavior, leaders, grazing, cattle 1376.
social behavior, mother-offspring interactions, play, social interactions, *Cervus elaphus* 1369.
social behavior, *Pluvialis squatarola*, *Pluvialis dominica*, *Arenaria interpres*, Canada, Manitoba 2696.
social behavior, sexual behavior, behavioral genetics, males, cattle 182.
social hierarchy, age, females, *Macaca radiata* 99.
social hierarchy, aggressive behavior, *Telogeoryllus oceanicus* 2370.
social hierarchy, dairies, cattle 1375.
social hierarchy, evolution, *Primates* 3645.
social hierarchy, housing preferences, cattle 2219.
social hierarchy, *Macaca sylvana* 3646.
social hierarchy, olfactory stimuli role, *Nauphoeta cinerea* 3482.
social hierarchy, *Paraschnogaster nigricans serrei* 2891.
social hierarchy, phenotypes, cattle 1377.
social hierarchy, spawning, *Herotiapiia multipinnosa* 2374.
social interactions, aggression, testosterone, binding, central nervous system, mice 1045.
social interactions, habitat selection, *Parus major* 3813.
social organization, spatial distribution, interspecific relationships, cattle 1226.
social organization, spatial distribution, vocalization behavior, *Alouatta palliata* 3649.
social organization, territorial behavior, home range, habitat utilization, *Uta stansburiana* 1220.
social rank, effects on breeding success, copulation, *Peromyscus maniculatus* 1332.
social rank, egg production, chickens 4447.
social rank, females, androgens effects on, *Equus caballus* 97.
social rank, male selection, rats 3560.
social rank, mother-offspring interactions, play, *Macaca fuscata* 2234.
social rank, replacement, males, *Macaca fascicularis* 2378.
social rank, spatial distribution, pigs 3479.
social rank, subordination, feathers color, plumage badge, *Zonotrichia querula* 94.
social rank, testosterone plasma levels, males, mice 2376.
social structure, measuring techniques, methodology, cattle 3339.
- Donkeys,**
sexual behavior, estrus cycle, sex hormones 2508.
- L-DOFA,**
activity patterns, neurochemistry, rats 3145.
chronic exposure, neurotransmitters, benzerazide, drug effects, locomotor activity, mice 791.
drug effects, activity patterns, posture, *Callithrix jacchus* 971.
- Dopamine,**
agonists, amphetamine, apomorphine, stereotyped behavior, estradiol benzoate, rats 3311.
agonists, antagonists, lesions, area postrema, rats 3149.
brain levels, exploratory behavior, hybrids, inbreeding, mice 4465.
chemoreceptors, drug effects, neuroleptics, grooming, mice 856.
control, locomotor activity, nucleus accumbens, rats 4198.
drug effects, locomotor activity, nucleus accumbens, rats 942.
drug effects, pimozide, stimulus control, fixed consecutive number schedule, pigeons 2078.
drugs, chemoreceptors, septum, stereotyped behavior, locomotor activity, rats 850.
drugs, stereotyped behavior, attention, maze learning, mice 982.
effects on avoidance learning, escape behavior 931.
effects on emotional behavior, shock, rats 1020.
effects on food intake, feeding behavior, rats 4377.
effects on locomotor activity, rats 4207.
effects on memory, mice 611.
effects on swimming behavior ontogeny, neonates, rats 526.
effects on thermoregulatory behavior, stereotyped behavior, nutrient deficiency, rats 521.
effects on tonic immobility, chickens 1122.
effects on yawning behavior, rats 1967.
intracranial chemical stimulation, hypothalamus, effects on maze learning, rats 597.
intracranial chemical stimulation, nucleus accumbens, locomotor activity, *Catelepis*, *Saimiri sciureus* 2011.
intracranial chemical stimulation, striate cortex, effects on stereotyped behavior, rats 1019.
intracranial self-stimulation, ESB, reinforcement, rats 4265.
levels, locomotor activity, rats 4192.
levels, substantia nigra lesions, effects on intracranial self-stimulation, rats 4243.
metabolism, striate cortex, substantia nigra, avoidance learning, rats 4214.
midbrain lesions, locomotor activity, open-field behavior, rats 3175.
neurochemistry, apomorphine, activity patterns, rats 3271.
neurons degeneration, drug effects, cytidine diphosphate choline, locomotor activity, rats 1007.
neurons, substantia nigra, role, food consumption, drug effects, rats 1988.
neurotransmitters, lesions, substantia nigra, rotation, grafting, adrenal chromaffin cells, rats 896.
phenylethylamine behavior, neurotransmitters, rats 1012.
receptors, desipramine effects on, locomotor activity, rats 933.
receptors, neuroleptics effects on, stereotyped behavior, gnawing, mice 952.
receptors, sensitivity effects on avoidance learning performance, rats 978.
receptors, sensitivity, fluphenazine decanoate, rats 968.
role, drinking behavior, rats 4195.
role, feeding behavior, rats 4231.
role, grooming, corticosteroid effects on, rats 4206.
role, sexual receptivity, estrus cycle, rats 2498.
sensitivity, sleep (REM) deprivation effects on, depression, rats 774.
spinal cord, tail-flick response, rats 4161.

Dopamine, (continued)

- stereotyped behavior, drug effects, 5-hydroxytryptamine, rats 947.
stereotyped behavior, rats 948.
stress effects on, escape behavior, mice 2237.
transport, brain, cationone effects on, stereotyped behavior, rats 2090.
3,3',5-triodothyronine, effects on synapses function, limbic system, substantia nigra, rats 4350.
- Dopamine agonists,**
naloxone, chloramfetamine, drug effects, climbing, mice 984.
- Dopamine receptors,**
ergotamine, ergometrine, effects on locomotion, *Helix pomatia* 4279.
mediation, quipazine effects on locomotor activity, rats 4343.
- Dorsal noradrenergic fibers,**
learning behavior, lesions, effects on learning behavior, rats 911.
- Dorsolateral fimbria,**
opioids, role, classical conditioning analgesia, rats 4212.
- Dorsolateral pons,**
lesions, effects on nictitating membrane response conditioning, classical conditioning, rabbits 4233.
- Dorylinae,**
social behavior, foraging behavior, nests 2890.
- Doryphora punctatissima,**
aggressive behavior, morphology, sternal horn 1190.
- Drift,**
benthos, composition, environmental effects, Australia, A.C.T., Condor Creek 433.
diet activity, nymphs, *Atapholebioides*, Australia 434.
vertical migrations, circadian rhythms, *Anisogammarus annandalei*, *Anisogammarus jesoensis* 3090.
- Drilling mud,**
pollution effects, feeding, activity patterns, *Homarus americanus* 3767.
- Drinking,**
circadian rhythms, sheep 763.
drug effects, opioids, agonists, antagonists, rats 2150.
drug effects, tryptophan, rats 2154.
feeding, threshold, models 3332.
intracranial chemical stimulation, naloxone, hypothalamus (lateral), ventricle (lateral), rats 2065.
- Drinking behavior,**
acetylsalicylic acid, effects on water intake, hypovolemia, rats 4393.
alcohol, septum lesions effects on, rats 4226.
alcohol, 5-hydroxytryptamine effects on, mechanisms, rats 4208.
d-amphetamine effects on, polydipsia, reinforcement schedules, rats 4358.
angiotensin effects on, hypertension, rats 4202.
angiotensin effects on, rats 2938.
angiotensin, prostaglandins, rats 2007.
calcium, magnesium effects on, ventricles (cerebral) injection, sheep 799.
circadian rhythms, photoperiods effects on, hamsters 1940.
competition, social hierarchy, females, *Cercopithecus aethiops* 1232.
conditioned response, measuring techniques, rats 548.
conditioned response, rats 2938.
diurnal variations, mice 4141.
dopamine role, hypothalamus lesions, rats 4195.
drug effects, naloxone, MIF-1 peptides, sex differences, rats 2156.
drug effects, pimozide, rats 2123.
feeding behavior, exploratory behavior, rats 3755.
feeding behavior, regulation, rats 3754.
flight, *Tabanidae* 2641.
hypothalamus (medial) lesions, atropine effects on, rats 2042.
isoproterenol, punishment, anticonflict effects, rats 3954.
lesions, ventricles (third), subfornical organ, rats 3206.
neurology, equipment, rats 4432.
naloxone effects on, diabetes insipidus, rats 2125.
ontogeny, rats 1621.
osmolegation, prostaglandin E₂, angiotensin II, rats 1965.
portal vein surgery effects on, rats 1961.
stereotyped behavior, spiperone, piribedil effects on, rats 4330.
stress effects on, rats 905.
sucrose solutions, naloxone effects on, rats 2133.
thirst, angiotensin effects on, rats 411.
thirst effects on, ducks 378.
water balance regulation, *Bufo arenarum* 3803.
water intake, angiotensin, structure-activity relationships, rats 4156.
water intake, feeding, food intake, dogs 1514.
water intake, pigs 3352.
- DRL schedule,**
reinforcement, operant response, punishment, rats 3942.
- DRO schedule,**
behavioral contrast, rats 3934.
blocking, rats 2944.
- Drosophila,**
circadian rhythms, oscillation, mathematical models 1933.
geotaxis, phototaxis, vertical distribution 1839.
learning behavior, population characteristics, memory 1770.
mate selection, behavioral genetics 2439.
mating behavior, deserts, role, visual stimuli, auditory stimuli 1267.
mating behavior, fitness, breeding success 2409.
mating behavior, intensity, mathematical models 136.
mutants, sexual behavior, courtship 2628.
mutation, associative learning, habituation, sensitivity 3844.
phototaxis, photoreceptors pigmentation 1884.
- Drosophila scanthoptera,**
mating behavior, deserts, role, visual stimuli, auditory stimuli 1267.
- Drosophila arizonensis,**
courtship, reproductive isolation, *Drosophila mojavensis* 118.
- Drosophila bipectinata,**
antennal chemoreceptors, mating behavior, recognition, males 4150.
- Drosophila heteroneura,**
speciation, geographical distribution, behavior effects on 446.
- Drosophila hydei,**
orientation, flight, visual stimuli 3052.
- Drosophila malerkotliana,**
antennal chemoreceptors, mating behavior, recognition, males 4150.
- Drosophila mauritiana,**
courtship, song, genetics 1291.
- Drosophila melanogaster,**
avoidance learning, mutants 561.

Drosophila melanogaster, (continued)

courtship, song, genetics 1291
 courtship, tracking, females 134
 deficient mutant, visual discrimination learning, memory 2985
 esterase 6, enzymatic activity, effects on reproductive behavior 1261
 eye color mutants, mating behavior 128
 genes, courtship, mating behavior, hybrids, *Drosophila simulans* 1582
 genetics, courtship, mating behavior, eye color mutants 2860
 inbreeding, selection, effects on mating behavior 2878
 landing behavior, habituation, visual perception 690
 mating behavior, genes, lethality effects on 2877
 mutants, eye pigmentation, effects on phototaxis 1838
 mutants, phototaxis, visual stimuli, courtship 2876
 mutants, sex pheromone, courtship inhibition 142
 oviposition rhythms, acetic acid effects on 1279
 oviposition, site selection 120
 reproductive isolation, strains, competition, population density 225
 visual discrimination, visual perception, locomotion, walking 708
 visual perception, tracking, mating behavior 710

Drosophila mercatorum,

mating behavior, courtship, auditory perception 3069

Drosophila mettleri,

geotaxis, phototaxis, vertical distribution 1839
 oviposition habitat preferences, effects on larvae survival 122

Drosophila mojavensis,

courtship, reproductive isolation, *Drosophila ananassensis* 118
 foraging behavior, feeding behavior, substrate preferences, food preferences, yeast 2629

Drosophila nanoptera,

mating behavior, deserts, role, visual stimuli, auditory stimuli 1267

Drosophila nasuta,

courtship, recognition, conspecifics, phylogeny 3501
 sound production (biological), variability, auditory communication 30

Drosophila nigrospiracula,

geotaxis, phototaxis, vertical distribution 1839
 oviposition habitat preferences, effects on larvae survival 122

Drosophila primaeva,

courtship, mating behavior, population structure, population genetics, Hawaii 141

Drosophila pseudoobscura,

females, copulation, sperm use 104

Drosophila silvestris,

population studies, geographical variations, sexual behavior, Hawaii 3517
 speciation, geographical distribution, behavior effects on 446

Drosophila simulans,

courtship, song, genetics 1291
 genes, courtship, mating behavior, hybrids, *Drosophila melanogaster* 1582

Drought,

effects on nests parasitism, egg laying, interspecific relationships, *Aythya americana*, Canada, Alberta 1299

Drug abuse,

man, pharmacology, drug self-administration, nomifensine, rats 2095

Drug effects,

activity patterns rhythms, peripheral nervous system depolarization, *Felis 440*
 administration rates 2068
 administration rates 2069
 administration rates 2071
 administration rates, historical account 2072
 age effects on, tonic immobility, chickens 4485
 aggression, sleep (REM) deprivation effects on, rats 1946
 aggressive behavior, scopalamine, *Microtus townsendii* 69
 alcohol, hippocampus role, rats 1998
 alcohol, prenatal experience, maze learning, rats 2168
 AMPA, wet dog shakes, catalepsy, thermoregulation, rats 2170
 amphetamine, behavior, intracranial self-stimulation, reinforcement asymmetry, rats 973
 amphetamine, diphenhydantoin, nicotine, avoidance learning, rats 3272
 amphetamine, response, second-order schedule, visual stimuli, *Saimiri* 1026
 amphetamine, stereotyped behavior, rats 2143
 amphetamines, feeding behavior, anorexia nervosa, juveniles, rats 2132
 amphetamines, spectral analysis, observation methods, electronic equipment, rats 2204
 amphetamines, suppression, food intake, fat metabolism, *Rattus rattus* 2086
 amphetamines, variable interval schedule, reinforcement, response rates, rats 2161
 analgesics, cerebellum serotonin levels, rats 944
 anorectic agents, feeding behavior, reinforcement, rats 4351
 antagonism, acquisition, chain schedule, pigeons 3280
 antagonist, 2,5-dimethoxy-4-methylamphetamine, quipazine, metergoline, operant response, rats 2134
 anxiolytic drugs, open-field behavior, feeding, rats 2129
 apomorphine, aggressive behavior, sleep (REM) deprivation, rats 1005
 apomorphine, dopamine agonists, naloxone, chloramfetamine, climbing, mice 984
 apomorphine, methamphetamine, licking behavior, sniffing, rats 2127
 arousal, amphetamine, methylphenidate, *Saimiri* 741
 auditory perception, avoidance behavior, *Rattus rattus* 966
 avoidance learning, monkeys 3304
 avoidance learning, rats 2105
 behavioral teratology, conferences 3375
 benzazide, locomotor activity, chronic exposure, neurotransmitters, L-DOPA, mice 791
 benzodiazepines, conditioned response 2067
 benzodiazepines, grooming, intracranial chemical stimulation, adrenocorticotrophic hormone, β -endorphin, mice 2135
 bicuculline, learned helplessness, depression, gamma-aminobutyric acid 1950
 bombesin, sodium chloride, lithium chloride, food intake, taste aversion, rats 977
 bombesin, thermoregulation, operant response, rats 945
 bromocriptine, dihydroergotamine, sleep and wakefulness, sleep (REM), rats 980
 bromocriptine, 6-hydroxydopamine, escape behavior, locomotor activity, juveniles, rats 2167
 α -bungarotoxin, suprachiasmatic nucleus, light effects, pineal gland, enzymatic activity, circadian rhythms, rats 764
 caffeine, stimulus control, rats 2104
 caffeine, tactile stimuli, startle response, reactivity, rats 2144
 caffeine, tactile stimuli, hypothermia, ejaculation, salivation, irritability, rats

Drug effects, (continued)

2153
 chronic administration, amphetamine, nucleus accumbens, locomotor activity, tolerance, rats 985
 clonidine, avoidance behavior, locomotor activity, lesions, raphe nuclei, rats 970
 clozapine, fixed interval schedule, stimulus-shock termination, *Saimiri* 2172
 cocaine, intracranial self-stimulation, reward, detection threshold, dissociation, *Rattus rattus* 958
 cocaine, procaine, lidocaine, locomotor activity, open-field behavior, rats 2165
 codeine, antagonists, naloxone, operant response, behavior maintenance, *Macaca mulatta* 1027
 codeine, ketamine, operant response, behavior maintenance, *Macaca mulatta* 1023
 conditioned response, fixed interval schedule, pigeons 2076
 conditioned response, multiple schedule, rats 2124
 conditioned suppression, water lick paradigm, methodology, rats 3286
 cycloheximide, puromycin, avoidance learning, retention, *Periplaneta americana* 2075
 cydurene diophosphate choline, locomotor activity, dopamine neurons degeneration, rats 1007
 deanol, behavior, neurotransmission, rats 2163
 desipramine, intracranial chemical stimulation, self-stimulation, rats 2118
 diazepam, avoidance behavior, learning behavior, memory, age effects, rats 972
 diazepam, conditioned defensive burying, behavioral paradigms, rats 2160
 diazepam, schedule-induced behavior, operant response, shock, rats 2126
 discrimination, lead acetate effects on, intraneural exposure, rats 1605
 L-Dopa, apomorphine, methamphetamine, activity patterns, posture, *Callithrix jacchus* 971
 β -endorphin, morphine, exploratory behavior, sexual behavior, social behavior, males, rats 943
 enkephalin, intracranial chemical stimulation, activity patterns, rats 949
 ESB reinforcement, rats 2050
 estrogen, progesterone, lordosis behavior, rats 4380
 etracetam, acquisition, extinction, retention, open-field behavior, rats 2157
 exploratory behavior, habituation, stimuli specificity, methodology 1078
 fluphenazine metabolites, open-field behavior, hyperactivity, rats, mice 961
 food consumption, substantia nigra neurons, rats 1988
 d-glutamine, avoidance behavior, amnesia, epilepsy, juveniles, chickens 2077
 grooming, wet-dog shakes, rats 4281
 hallucinogens, discriminative stimuli, rats 2158
 hallucinogens, environmental factors effects on, grooming, reflexes, cats 969
 haloperidol, apomorphine, naloxone, convulsions, catalepsy, catatonia, rats 739
 hormone release, sleep inhibition, fluorotryptophan, *Rattus rattus* 2081
 6-hydroxydopamine, avoidance learning, latency, catecholamines, rats 1734
 6-hydroxydopamine, thalamus, lesions, activity patterns, rats 998
 5-hydroxytryptamine, dopamine stereotyped behavior, rats 947
 5-hydroxytryptamine, food intake, taste aversion, rats 2141
 L-5-hydroxytryptophan, walking, mice 979
 intracranial chemical stimulation, 6-hydroxydopamine, reserpine, ventricles (cerebral), aggressive behavior, rats 997
 intracranial self-stimulation, ESB, reinforcement, rats 4266
 intracranial self-stimulation, rats 3220
 kainic acid, brain, hippocampus, lesions, locomotor activity, exploratory behavior, pharmacology, rats 901
 learning, conditioning, conferences 2249
 lithium, amphetamine depression, self-stimulation, substantia nigra, rats 1003
 lithium, circadian rhythms, photoperiods, wheel running, rats 1938
 locomotor activity, limbic system lesions, rats 3196
 locomotor activity, neurotransmitters, nucleus accumbens, rats 942
 melatonin, emotional behavior, open-field behavior, *Macaca mulatta* 1024
 methaqualone, social behavior, sexual behavior, *Macaca mulatta* 1024
 methylphenidate, self-punitive behavior, conditioned response, extinction, *Rattus rattus* 964
 morphine, amphetamine, physical activity, pons norepinephrine, rats 2142
 morphine, locomotion physical activity, conditioning, rats 950
 morphine, stereotyped behavior, locomotion, sociological aspects, mice 1009
 morphine, taste aversion, lesions, periaqueductal grey area, rats 3186
 motivation, sexual behavior, methadone, males, *Mesocricetus auratus* 953
 motor activity control, cerebellum, mice 4173
 naloxone, aggressive behavior, mice 2119
 naloxone, discrimination learning, inbreeding, strains, mice 996
 naloxone, drinking, rats 2065
 naloxone, feeding behavior, food preferences, nutrients, rats 983
 naloxone, feeding behavior, rats 2110
 naloxone, food intake, chemoreceptors, rats 946
 naloxone, MIF-1 peptides, drinking behavior, sex differences, rats 2156
 naloxone, olfactory discrimination, odors, alternation learning, rats 2107
 naloxone, narcotics antagonists, feeding behavior, *Macaca mulatta* 1025
 neuroleptics, grooming, dopamine, chemoreceptors, mice 856
 neurophysiology, brain, motor activity, head, rats 1984
 nisoxetine, fluoxetine, tonic immobility, chickens 936
 operant response, fixed interval schedule, fixed ratio schedule, pigeons 935
 operant response, self-stimulation, rats 2115
 opioids, agonists, antagonists, feeding, drinking, rats 2150
 orotic acid, chemical stimuli, avoidance behavior, memory, rats 974
 penicillin, stereotyped behavior, self-injury, rats 4476
 pharmacology, quantitation 2070
 pharmacology, reviews 2073
 phenylclidine behavior, dopamine, haloperidol, apomorphine, rats 1012
 phenylclidine, chronic effects, locomotor activity, age, juveniles, cats 1008
 physostigmine, atropine, cues, rats 1006
 physostigmine, pilocarpine, yawning behavior, neurons, mechanisms, rats 848
 pilocarpine, grooming, physical activity, limbs, rats 2155
 pimozide, acquisition, operant response, rats 2137
 pimozide, attenuation, taste preferences, self-stimulation, rats 2147
 pimozide, drinking behavior, licking behavior, rats 2123
 pimozide, food reinforcement, fixed interval schedule, ESB, rats 1929
 pimozide, stimulus control, fixed consecutive number schedule, dopamine, pigeons 2078
 puromycin, behavior modification, learning behavior, *Helix pomatia* 528
 quipazine, fenfluramine, apomorphine, morphine tonic immobility, juveniles, chickens 1980
 responsiveness, punishment, pigeons 2109
 scopalamine, aggressive behavior, olfactory bulb ablation, brain enzymatic activity, rats 1964
 scopalamine hydrobromide, UCS, aversion, rats 2151

Drug effects, (continued)

- serotonin, inducers, predation mice, reversal learning, rats 2083
 sexual behavior, estrus cycle, benzamide, *Rattus rattus* 954
 sexual behavior, males, rats 2149.
 sleep, photoperiod, rats 4145.
 stereoselectivity, antagonists, agonists, opioids, feeding, rats 2131.
 suppression, food intake, water intake, *Rattus rattus*, 2082.
 taste aversion, barbiturates, lithium chloride, *Rattus rattus* 962.
 taste aversion learning, avoidance behavior, rats 3281.
 tetrahydro- β -carboline, stereotyped behavior, rats 948.
 tetrahydrocannabinol, conditioned response, avoidance behavior, *Rattus rattus* 965.
 tetrahydrocannabinol, females, environmental effects, hormones, males, mice 2130.
 thermoregulatory behavior, *Necturus maculosus* 3801.
 tonic immobility, chemoreceptors, tryptophan, *Gallus gallus* 1124.
 tonic immobility, chickens 2241.
 tranquilizers, tryptamine antagonists, operant response, punishment, rats 2162.
 tryptophan, muncidine, feeding, drinking, locomotion, brain 5-hydroxytryptamine, rats 2154.
 wet-dog shakes, rats 4362.
- Drug self-administration,**
 baboons, equipment 1097
 cocaine, fixed interval schedule, body weight, rats 2121.
 intracranial implantation, amphetamine, *Macaca mulatta* 1029.
 intracranial self-stimulation, tegmentum, morphine, mediation, opiate receptors, rats 3273.
 levorphanol, modification, interference, metabolism, 5-hydroxytryptamine, catecholamine, rats 4168.
 methodology, syringes, rats 1091.
 nomifensine, pharmacology, rats, drug abuse man 2095.
- Drug tolerance,**
 amphetamines, homeostasis, role, classical conditioning, rats 2145.
 morphine, conditioning, latency, rats 2159.
 morphine, mydriasis, eye, rats 999.
 nicotine withdrawal, effects on behavior, rats 938.
- Drugs,**
 acetylsalicylic acid, effects on water intake, drinking behavior, hypovolemia, rats 4353.
 aggressive behavior, apomorphine, chronic administration, clonidine, rats 4369.
 alcohol, effects on maternal behavior, rats 4387.
 alcohol, preferences, effects on discrimination learning, rats 4285.
 amphetamine, effects on schedule-induced behavior, monkeys, pigeons 4278.
 antidepressants, effects on grooming, novelty, rats 3291.
 apomorphine, effects on stereotyped behavior, locomotor activity, rats 3299.
 apomorphine, inducers, aggressive behavior, stress, rats 1000.
 apomorphine, induces stereotyped behavior, food deprivation, rats 992.
 apomorphine, memory, amnesia, conditioning, avoidance behavior, neurophysiology, rats 981.
 buspirone, aggressive behavior, inhibition, *Macaca mulatta* 1031.
 caerulein, cholecystokinin octapeptide, diazepam, effects on exploratory behavior, mice 4335.
 caffeine, effects on schooling behavior, spatial distribution, *Hemichromis bimaculatus* 4282.
 catecholamines, effects on emotional behavior, rats 3275.
 p-chlorophenylalanine, effects on sleep regulation, rats 4144.
 choline effects, levodopa-carbidopa, behavior, sensitivity, guinea-pigs 3289.
 clozapine, haloperidol, response, rats 986.
 cocaine, effects on memory, matching-to-sample, pigeons 4283.
 cocaine, schedule-induced behavior, monkeys 1028.
 cyproterone acetate, predation, *Mustela* 396.
 desmethylinpimpridine, inducers, aggressive behavior, fighting, antidepressants, rats 993.
 di-n-propylacetate, effects on γ -aminobutyric acid distribution, convulsions, aggressive behavior, mice 4348.
 discrimination learning, γ -hydroxybutyrate, rats 3278.
 discrimination learning, taste aversion learning, rats 3960.
 discrimination, training, operant response, rats 1092.
 dopamine, chemoreceptors, septum, stereotyped behavior, locomotor activity, cats 850.
 dopamine, stereotyped behavior, attention, maze learning, mice 982.
 effects on activity patterns, exploratory behavior, rats 976.
 effects on aggressive behavior, Cichlosome microgasterium 3223.
 effects on alcohol locomotor activity induction, mice 967.
 effects on grooming, escape behavior, mice 4405.
 effects on operant conditioning responsiveness, statistical analysis, rats 991.
 effects on operant response, maintenance, rats 1018.
 fighting, shock, benzodiazepine, mice 77.
 intracranial self-stimulation, reinforcement, rats 4273.
 intracranial self-stimulation, reinforcement, rats 4273.
 locomotor activity, hyperactivity, lithium, amphetamine, inducers, rats 994.
 methadone, heroin, intratracheal exposure, effects on hyperactivity, motor task performance, sleep, laboratory animals 4276.
 morphine, enkephalin, maze learning, Y-maze, mice 594.
 morphine, enkephalins, effects on operant response, rats 3274.
 naloxone, effects on exploratory behavior, grooming, mice 3270.
 naloxone, N-o-propylpimpridine, effects on copulation, males, rats 4373.
 neurochemistry interaction, 6-fluorotryptophan effects on sleep and wakefulness, rats 3269.
 neurophysiology, measuring techniques, intracranial injections, *Macaca mulatta* 1096.
 nicotine, monkeys, schedule-induced behavior 1030.
 operant conditioning, olfactory discrimination learning, rats 3995.
 pentobarbitone, discrimination learning, rats 1010.
 quipazine, effects on sleep (REM), cats 3303.
 release factors, 5-hydroxytryptamine, catecholamines, neurochemistry, activity patterns, rats 3178.
 sodium n-dipropylacetate, effects on stereotyped behavior, wet dog shakes, rats 4381.
 spermine, effects on food intake, water intake, rats 3296.
 Substantia nigra lesions, effects on stereotyped behavior, rats 898.
 1,1,1-trichloroethane, effects on matching-to-sample, *Papio anubis* 4395.
 UCS preexposure, taste aversion learning, rats 3957.
- Drumming,**
 auditory communication, geographical variations, *Pteronarcadia badia* 3386.
 auditory communication, *Plecoptera* 3384.
 auditory communication, population density, *Bonasa umbellus* 1173.

- Drying,**
 wings, thermoregulatory behavior, *Anhinga anhinga* 3817.
- Dryinidae,**
 oviposition, host specificity, *Dichoptera hyalina*, *Eurybrachys tomentosa* 117.
- Dryocopus pileatus,**
 foraging behavior, commensalism, *Picoides villosus* 2727.
- DSIP,**
 effects on locomotor activity circadian rhythms, sleep, rats 1962.
- Ducks,**
 drinking behavior, thirst effects on 378.
 embryos, escape learning, telencephalon ablation effects on 563.
 imprinting, visual preferences, maternal effects, calling behavior, juveniles 1601.
 learning behavior, sensory stimuli deprivation effects on, juveniles 1602.
 reinforcement schedule, fixed ratio schedule, fixed interval schedule, social bonds, juveniles 1672.
- Dugong dugon,**
 feeding behavior, diets 386.
 wildlife conservation, activity patterns, feeding behavior, habitat 2902.
- Dumetella carolinensis**
 mating behavior, habitat preferences, nesting behavior 1310.
- Dung,**
 attractancy, learning behavior, *Enterolobium cyclocarpum* seeds, *Liomys salvini* 3952.
- Duration,**
 exploratory behavior, social behavior, memory, copulation, rats 1374.
 interstimulus interval, discrimination learning, pigeons 1774.
 response, autoshaping, automaintenance, pigeons 1668.
 sampling, toxins, cues, avoidance behavior, rats 1739.
 signals, effects on response, free operant avoidance, rats 585.
 stimuli, effects on discrimination learning, pigeons 589.
- Dynorphin-(1-13),**
 effects on food intake, feeding behavior, rats 4377.
- Dytiscus verticalis,**
 burrowing behavior, larvae, pupation 2799.
 predators, avoidance behavior, secretions, *Notophthalmus viridescens* 1716.
- Ear,**
 auditory stimuli, tones, laterality effects, reaction time task 730.
- Early experience,**
 aggressive behavior, predation, defense, development, adult, cats 71.
 aggressive behavior, predation, defense, development, juveniles, cats 72.
 behavior ontogeny, reviews 3872.
 cerebral dominance, asymmetry, *Corpus callosum* 3132.
 effects on aggression, environmental conditions, burrows, rats 1206.
 effects on auditory perception, sound localization, *Tyto alba* 3082.
 effects on cerebral dominance, asymmetry 1949.
 effects on discrimination learning performance, rats 593.
 effects on learning behavior performance, rats 600.
 effects on nesting behavior, migrations, *Fringilla coelebs* 3874.
 effects on nesting behavior, *Mus musculus* 3592.
 effects on olfactory preferences, lemon odors, nesting behavior, rats 4117.
 effects on social behavior, *Acomys aethiops* 3628.
 effects on song, *Zonotrichia leucophrys* 1162.
 food intake, food preferences, radioactive labelling, sheep 1512.
 handling, effects on hypertension, genetic control, rats 3851.
 huddling, locomotor activity, emotional behavior, rats 3880.
 learning behavior, behavioral teratology, conferences 3375.
 learning behavior, play, exploratory behavior, *Mustela putorius*, *Mustela furo* 2918.
 malnutrition, effects on operant conditioning, food reinforcement, rats 3885.
 noise, effects on activity patterns, rats 3878.
 nutrient deficiency, iron, effects on taste aversion learning, food intake, rats 519.
 sensory stimuli, effects on discrimination learning, cortex (visual) lesions, cats 2056.
 social environment deprivation, effects on, social behavior, sexual behavior, chickens 2911.
 social environment, effects on maze learning, mice 3887.
 temperature, effects on food intake, rats 3749.
 methylin, effects on motor activity, orientation, rats 3248.
 undernutrition, brain weight, environmental conditions, enrichment, rats 3122.
 undernutrition, effects on learning behavior 2904.
 undernutrition, effects on memory, hippocampus, rats 1616.
 urine odors, preferences, guinea-pigs, fecal populations 1178.
 visual deprivation, effects on visual perception, cats 3060.
 visual stimuli, effects on maze learning, rats 1614.
- Ehala tuberosa,**
 feeding behavior, food composition, food consumption 285.
 feeding behavior, food preferences, diets 288.
 substrate preferences, burrowing, orientation 427.
- Echinodermata,**
 feeding behavior, stimulants, food preferences 277.
- Echinoidea**
 swimming behavior development, embryos, larvae 672.
- Echinometra lucunter,**
 feeding behavior, food preferences 2616.
- Echinus esculentus,**
 appendages, physical activity, neurophysiology, electrical properties 3133.
- Echolocation,**
 adaptations, *Rhinopoma hardwikeri* 1858.
 auditory perception, destruction inferior colliculus, neurophysiology, brain, *Rhinolophus ferrumequinum* 669.
 bioacoustics, noise, *Tursiops truncatus* 3085.
 feeding behavior, diets, *Antrozous pallidus* 3736.
 flight activity, juveniles, *Chiroptera* 1855.
 frequency, feeding behavior, predation, *Trachops cirrhosus* 390.
 habitat preferences, feeding behavior, *Euderma maculatum* 406.
 orientation, Mammalia, books 3372.
 orientation, sound production (biological), *Desmodus rotundus* 1857.
 predatory behavior, colliculus anatomy, *Rhinolophus ferrumequinum* 801.
 predatory behavior, habitat utilization, *Chiroptera*, Australia, Queensland, Chillagoe 3740.
 sound production (biological), flight, *Desmodus rotundus* 1859.

Echolocation, (continued)vocalization behavior, *Eptesicus fuscus* 4063**Ecological analysis,**

learning, theories 3331.

Ecological distribution,courtship, *Epineura* 1236distress vocalization behavior, *Aves* 2291effects on behavior ontogeny, *Scordaea* 520effects on social organization, habitat preferences, *Callimico goeldii*, Bolivia 1380.habitat preferences, activity patterns, forests, *Peromyscus maniculatus*.Clethrionomys gapperi, *Napaeozapus insignis* 488habitat preferences, burrowing behavior, vegetation patterns, *Insectivora* 487habitat preferences, *Macropus giganteus* 2866nesting behavior, habitat, *Miscopus* 2412osmoregulation, salinity tolerance, *Galeolana caespitosa*, Australia Coast 2772reproductive behavior, migrations, *Gerygone fusca*, *Gerygone levigaster*, *Gerygone*

mouki, Australia 478

social behavior, feeding, movements, seasonal variations, *Corvidae* 2894territorial behavior, habitat selection, *Labrisomidae filamentosus*, Barbados 466territorial behavior, mangrove swamps, *Penophthalmus*, *Penophthalmodon*

schlossens 2352

Ecological evaluation,niche position, visual perception, motor activity, ethology, *Rodentia* 1568**Ecology,**

behavior, theories, recognition, orientation, visual discrimination learning 419

endocrine system, reproductive behavior, *Anolis carolinensis* 459foraging behavior, food consumption, deserts, *Lacertilla* 1559nesting behavior, ontogeny, feeding behavior, *Alcidae* 1600population regulation, killer trout, interspecific relationships, *Paramecium*

aurelia, USA, Indiana 1524

Economics,social organization, *Pan troglodytes*, *Papio* 250**Extemalms centralis,**

nesting behavior, nest provisioning 2520

Edalia tuberosa,

spatial distribution, population density, controlled conditions 84

Edge effect,composition, host searching behavior, *Anthochaeris cardamines* 2392**EEG,**

brain arousal, neurophysiology, air, ionization, rats 864

brain, neurophysiology, air ionization, sleep, arousal 863

cerebellum, arousal, sleep, rats 2005

cortex (cingulate), reversal learning, rabbits 3161

cortex (prefrontal), manipulation, visual stimuli effects on, monkeys 870

focal spikes, epilepsy, cortex, rats 854

hippocampus activity, aversion learning, appetitive conditioning, cats 869

hippocampus, neurophysiology, avoidance behavior, rats 2003

hippocampus, theta rhythms, sleep (paradoxical), rats 1947

nerve transmission, cortex, neurophysiology, arousal, resting behavior, rats 860

neurophysiology, cortex, conditioned response, dogs 858

olfactory bulb, olfactory stimuli conditioning, rabbits 4188

opioids agonists effects on, rats 4384

Rana temporaria, activity patterns, orientation, *Bufo regularis*, *Rana temporaria*

3140

sleep, development, infants 777

sleep, swimming, *Phocoena phocoena* 3109

stress, sleep (REM), rats 3110.

Efficiency,feeding behavior, floods effects on, *Cinclus cinclus* 347.feeding behavior, *Pogonomymex rugosus*, *Vermosser pergandei* 1437locomotion, predatory behavior, *Notonecta* 3038predation, feeding behavior, food organisms, *Macroleone quinque maculatus*, *Pheidole*

1435.

predation, vegetation patterns effects on, *Cyprinodontidae*, *Decapoda* 418**Egg laying,**

chickens, temperature effects, humidity, heat, food intake, feeding behavior

1597

diurnal variations, *Caretta caretta*, USA, Florida Coast 3523hatching behavior, *Anser caeruleus*, *Anser caeruleus* 1300host plants, chemical perception, *Acrolepiopsis assectella* 133host searching behavior, population density, hosts, *Neodipron sertifer*.*Lophyplectus luteator* 2428nest building, *Cyptochorus* 138nest provisioning, leaves, *Passer domesticus* 3543nesting behavior, reproductive behavior, *Accipiter* 166nests parasitism, interspecific relationships, drought effects on, *Aythya*

americana, Canada, Alberta 1299.

reproductive behavior, photoperiods, sex hormones, crowding, *Lagopus lagopus* 178*Sterna hirundo* nests, *Molothrus* rat 3545.workers, intraspecific relationships effects on, *Bombus terrestris* 125.**Egg production,**nesting behavior, sexual reproduction, *Phalacrocorax canadensis*, USSR 3537.

social rank, chickens 4447.

Eggs,brood care, maternal behavior, females, *Labrida riparia* 3500.distribution, oviposition, host plants, host selection, *Oscinella frit* 3497factors affecting predation, *Corvus caurinus* 3730.hatchability, fecundity, oviposition, *Chilo suppressalis*, Japan 1253.hatching, del variations, *Atheronoma soccata* 3093.hatching, oral manipulation, brood care, *Alligator mississippiensis* 3583.hygiene, effects on maternal behavior, *Labrida riparia* 137.kaaromones, *Adoxophyes*, host searching behavior, oviposition, *Ascogaster*

reticulatus 3495.

movements, parental behavior, *Anas strepera* 2542.predation, larvae, ponds, *Ambystoma maculatum*, *Chironomidae*, Canada, Quebec 320.reproduction, nests parasitism, *Cuculus canorus*, *Phoenicurus phoenicurus* 3814.*Egretta garzetta*.

nesting behavior, colonies, breeding success, competition, France, Camargue 1306.

Egretta thula,

flocking behavior, food sources 356.

Eigenmannia,

nervous system analysis, electrolocation, response, avoidance behavior 1596.

Elaenia fœtida,

escape behavior, ontogeny, development, activity, nerves 3137.

Ejaculation,

drug effects, p-chloroamphetamine, rats 2153

hormones, naloxone effects on, rats 2175.

sexual behavior, age effects on, mice 3571

EKG,sleep, swimming, *Phocoena phocoena* 3109.**Elaphe obsoleta,**

carnivores, feeding behavior, carrion 325.

Elasmobranchia,

nervous system, brain, morphology, biochemical composition, behavior 830.

Eldana saccharina,

mating behavior, activity patterns, display 1251.

Electric communication,species diversity, sympatric populations, *Mormyridae*, Gabon, Ivindo R. 3398water conductivity effects on, *Brienomyrus niger* 3397.**Electric currents,**conditioned response, threshold sensitivity, *Carassius auratus*, *Phoxinus**phoxinus*, *Leuciscus leuciscus* 3080.**Electric fields,**

perception, conditioned suppression, pigeons 1915.

perception, corticosterone plasma levels, mice 1921.

perception, pigeons 1916.

Electric organs,communication, sexual dimorphism, social behavior, *Pollimyrus isidori* 2286.electric perception, *Hypopomus*, *Gymnotus*, *Brienomyrus* 3078.**Electric perception,**electric organs, *Hypopomus*, *Gymnotus*, *Brienomyrus* 3078.electrolocation, neurophysiology, *Apterontus albifrons* 3072.electrolocation, object perception, *Apterontus albifrons* 3071.**Electrical properties,**brain, seasonal variations, *Carassius auratus* 3141

cortex, arousal 1973.

cortex (visual), conditioning, cats 1987.

neurons, muscles, motor activity, *Paruroctonus mesaensis* 826.neurophysiology, appendages, physical activity, *Echinus esculentus* 3133.**Electrical stimulation,**

amygdala, hippocampus, foot shock, memory, rats 917.

amygdala, kindling behavior, interference, rats 919

behavior modification, learning behavior, drug effects, puromycin, *Helix pomatia*

528.

behavior monitoring, telemetry, electronic equipment, *Primates* 4440.

brain, neurophysiology, cats 731.

conditioned response, hippocampus, dogs 922.

effects on mechanoreceptors, body movements, *Hirudo medicinalis*, *Macrobellia**decora* 4184

electronic equipment, shock 1069

fixed interval schedule, fixed time schedule, operant response, chain schedule,

monkeys 1714

ganglia, flight, optomotor response, *Calliphora erythrocephala* 914

hippocampus, effects on memory, rats 1829

hypothalamus, appetitive conditioning, reinforcement dissociation, rats 918.

hypothalamus, self-stimulation, *Citellus idemineatus* 923

hypothalamus, sleep, effects on, respiration, rats 921

motor activity, effects on motor activity, cats 920

neurons, control, flashing, males, *Photinus versicolor* 22neurons, locomotor activity, *Tetradina* 915

nictitating membrane response conditioning, latency, rabbits 3950

self-stimulation, substantia nigra, amphetamine depression, drug effects,

lithium, rats 1003

shock, drug effects, tonic immobility, convulsions, catalepsy, catatonica, rats

739

thalamus, effects on distress vocalization behavior, guinea pigs 49.

Electrical stimuli,measuring techniques, methodology, *Pisces* 2196.**Electroantennograms,**olfactory perception, pheromones, *Ostrinia nubilalis* 1904.olfactory perception, sex pheromone, *Spodoptera littoralis* 1903**Electrodes,**

electrophysiological recording, brain, methodology 1081

Electroencephalograms,seasonal variations, *Carassius auratus* 3141**Electrolocation,**electric perception, neurophysiology, *Apterontus albifrons* 3072electric perception, object perception, *Apterontus albifrons* 3071nervous system analysis, response, avoidance behavior, *Eigenmannia* 1596.**Electron microscopy,**food consumption, *Tetrahymena vorax* 256**Electronic equipment,**

activity patterns monitoring, microwave radiation, radar, remote sensing 1079

behavior monitoring, electrical stimulation, telemetry, *Primates* 4440.feeding, activity patterns, rhythms, measuring techniques, *Channos channos* 3336.

methodology, light intensity 1070

monitoring methodology, nesting behavior, *Aves* 2198

observation methods, spectral analysis, drug effects, amphetamines, rats 2204.

radio-tagging, telemetry, tracking, activity patterns, wildlife 4429

shock, electrical stimulation 1069

telemetry, ultrasonics, swimming behavior, *Pisces* 4424.

temperature stimuli, skin, methodology 1073.

Electrophysiological recording,

activity patterns, neurophysiology, methodology 810.

antennal sensilla, pheromones enantiomers, *Dendroctonus frontalis* 2261.

cerebellum, purkinje fibers, grating, monkeys 879

cerebellum, role, classical conditioning, rabbits 1993.

chemoreception, feeding behavior, anatomy, *Phormia regina* 322.chemoreceptors, effects on feeding behavior, *Phormia regina* 1902.compound eyes, light sensitivity, light traps, *Spodoptera exigua*, *Spodoptera**frugiperda* 712.

electrodes, brain, methodology 1081

feedback control, leg muscles, *Carassius morosus* 688.

5-hydroxytryptamine neurons, globus pallidus, sleep and wakefulness, cats 4143.

hypothalamus (lateral), amygdala, role, feeding behavior, monkeys 872.

hypothalamus neurons, arousal, rats, rabbits 3167.

Mauthner cell action potential, *Carassius auratus* startle response cinematography

1914.

methodology, telemetry, amygdala, hippocampus, sexual behavior, cats 4211.

mudbrain, sleep, cats 3111

Electrophysiological recording, (continued)

- neurons, feeding behavior, amygdala, role, feeding behavior, monkeys 2009.
neurons, tegmentum, hypothalamus, self-stimulation, rats 4157.
olfactory perception, conspecifics, *Procyon capensis* 4114.
reticular formation, delayed response learning behavior, motor activity, cats 843.
taste perception, neobuparidin dihydrochalcone, rats, baboons 4093.
Electropotential,
cortex, auditory stimuli, ontogeny, man 1927.
Electroretinograms,
light sensitivity, diurnal variations, pigeons 720.
Eledone cirrhosa,
behavioral responses, color, discrimination learning 3.
Eledone moschata,
behavioral responses, color, discrimination learning 3.
Eledonella pygmaea,
bioluminescence, mating behavior 2252.
Eleutherodactylus coqui,
food organisms, survival, body size effects on, predation, Olios 287.
vocalization behavior, sound production, geographical distribution 3395.
Eflazepam,
effects on, feeding behavior, food intake, dogs 2152.
Elomys quercinus,
hibernation, feeding behavior, insulin effects on 1503.
hibernation, patterns, laboratories, rearing 1943.
Elimination behavior,
open-field behavior, locomotor activity, rats 3360.
Elysis cauze,
food preferences, growth, filaments 1391.
Emberiza calandra,
song, geographical variations 2305.
song, population density effects on, geographical variations 2300.
Emberiza citrinella,
song, geographical variations 3416.
Emberiza schoeniclus,
song, juveniles 3408.
Embryos,
escape learning, telencephalon, ablation effects on, ducks 563.
imprinting, prenatal experience, auditory communication, Anas 2907.
prenatal experience, effects on mother-offspring interactions, Aves 198.
swimming behavior development, Echinoidea 672.
swimming behavior development, Hemionotus pulcherrimus 3032.
swimming, neurophysiology, *Xenopus laevis* 3139.
Emergency,
behavior, environmental conditions, oxygen depletion, *Lipophrys pholis*, *Taurulus bubalis*, *Ciliata mustella* 468.
colonies, population levels, effects on, predatory behavior, *Polistes chinensis antennalis* 1434.
effects on, nest building, oviposition, *Dendroctonus frontalis* 1263.
flight activity, oviposition, *Chrysops suppressalis*, Japan 1253.
flight activity, *Thanosimus dubius* 3787.
larvae, *Uropeltia carovei carovei*, New Zealand, Wellington 3788.
Emotional behavior,
amygdala lesions effects on, monkeys 2061.
arginine vasopressin effects on, rats 3359.
brain catecholamines, open-field behavior, rats 3158.
brain structure 1975.
catecholamines, drugs, rats 3275.
central nervous system, benzodiazepines receptors, diazepam binding, rats 4209.
chickens, open-field behavior sex differences 4462.
conditioned response, neurophysiology, hypothalamus, rats 3160.
defensive behavior, optomotor response, vocalization behavior, cats 76.
drug effects, melatonin, rats 2146.
early experience, huddling, rats 3880.
effects on mother-offspring interactions, *Macaca mulatta* 1357.
endorphins effects on, encephalins 778.
feeding behavior, tail pinch effects on, ESB, hypothalamus (lateral), rats 4463.
fixed ratio schedule, depression, models, *Saimiri* 543.
Gorilla gorilla, books 4492.
imprisonment effects on, dogs 1014.
learning behavior, auditory stimuli, brain monoamines, rats 2223.
malnutrition effects on, rats 1603.
ontogeny, N-nitroso-N-ethylurea effects on, intrauterine exposure, rats 2914.
open-field behavior, mice 3358.
open-field behavior, rearing, isolation, rats 3884.
selection effects on, chickens 501.
sex hormones, testosterone, progesterone, fear conditioning, extinction, rats 1049.
shock effects on, dopamine, noradrenaline, rats 1020.
sleep (REM), deprivation, females, rats 2222.
social interactions, depression, agitation, juveniles, *Macaca mulatta* 1103.
stress, self-stimulation, septum, delayed response, cats 1106.
Empidonax flaviventris,
migrations, geographical distribution, adults, juveniles 3016.
Empidonax minimus,
competition, reproductive behavior, *Scotaphaga rutilica* 513.
migrations, Canada, Ontario 3021.
Empidonax traillii,
feathers morphology effects on feeding behavior 375.
Enallagma,
conspecifics recognition, tactile stimuli, mating behavior 2432.
Enallagma ebrium,
oviposition 2430.
Enallagma vernaie,
oviposition 2430.
Enanionomers,
pheromones, attractancy, *Dendroctonus frontalis* 2261.
Encarsia opulenta,
parasitoids, host searching behavior, oviposition, *Aleurocanthus woglumi* 1550.
Encephalins,
chemical composition, effects on behavior 778.
Endangered species,
activity patterns, feeding behavior, habitat, *Dugong dugon* 2902.
Endocrine system,
amygdala lesions, social behavior, juveniles, rats 886.
hormones, sexual behavior effects on, rats 4411.

- Endocrinology**,
sexual behavior, sexual receptivity, aging, *Macaca radiata* 4416.
Endogenous stimuli,
genetics, models, sleep (paradoxical) 772.
hatching, circadian rhythms, *Uca pugnator* 1932.
head-scratching, yawning behavior, *Rynchops niger* 2897.
oscillators, circadian rhythms, nervous system, cellular mechanisms, ions, cells, proteins 743.
sexual reproduction, hibernation, annual cycles, rhythms, *Eutamias amoenus*, *Eutamias minimus* 3102.
temporal discrimination, memory, rats 1826.
α-Endorphin,
effects on retention, avoidance behavior, rats 3155.
β-Endorphin,
drug effects, exploratory behavior, sexual behavior, social behavior, males, rats 943.
effects on avoidance behavior, rats 4191.
effects on avoidance learning, rats 787.
effects on schooling behavior, *Carassius auratus* 3143.
effects on sleep and wakefulness, cats 3113.
intracranial chemical stimulation, drug effects, benzodiazepines, grooming, mice 2135.
levels, shock effects on, rats 1997.
structure-activity relationships, shock responsiveness, rats 2000.
γ-Endorphin,
effects on retention, avoidance behavior, rats 3155.
Endorphins,
chemical composition, effects on behavior 778.
effects on distress vocalization behavior, guinea pigs 49.
effects on food intake, water intake, rats 955.
Endrin,
effects on locomotor activity, central nervous system, rats, hamsters 951.
Endocrine system,
behavior ecology, reproductive behavior, *Anolis carolinensis* 459.
maternal behavior, sensory stimuli regulation, juveniles, *Ovis* 203.
Energetics,
energy conservation, feeding behavior, locomotion, birds 372.
feeding behavior, chickens 3722.
feeding behavior, food organisms, *Callinectes sapidus*, *Geukensia demissa* 2618.
feeding behavior, food preferences, food organisms biomass, age effects, *Tyto alba* 374.
food availability, social facilitation, aggregation behavior, *Ochrotomys nuttalli* 3820.
foraging behavior, flight, Trichilidae, meliphagidae 1486.
foraging behavior, food preferences, mice, *Sciurus carolinensis* 2745.
foraging behavior, optimization, *Falco sparverius* 3709.
foraging behavior, optimization, parental behavior, Aves 1479.
foraging behavior, predation, habitat variation, *Argiope trifasciata*, *Araneus trifolium* 3665.
harem defense, reproductive behavior, *Arribes jamaicensis* 1320.
home range, territorial behavior, social behavior, *Anolis* 2348.
intracranial self-stimulation, hypothalamus, rats 4257.
locomotion, *Ursus maritimus* 3045.
nest building, vocalization behavior, *Physalaemus pustulosus* 3802.
predator-prey interactions, anti-predator behavior, *Thamnophis elegans*, *Plethodon jordani* 3799.
prey handling, food organisms, Insecta, *Attila spadiceus*, *Monasa morphoeus* 3712.
thermoregulatory behavior, huddling, *Peromyscus leucopus* 3828.
Energy budget,
diving, *Aptenodytes patagonicus* 1478.
diving, feeding behavior, females, *Arctocephalus gazella*, Falkland Is. 1496.
milk reduction effects on, play, grazing, juveniles, *Odocoileus virginianus* 2232.
Energy conservation,
activity patterns, metabolism, sleep 765.
locomotion, feeding behavior, birds 372.
locomotion, patterns, gait, horses 697.
Energy expenditure,
flight activity, slope soaring behavior, aerodynamic properties, *Pantala flavescens* 3033.
Energy intake,
food intake, deprivation, reinforcement schedules, preferences, feeding behavior, *Junco hyemalis* 1467.
optimization, foraging behavior, *Bombus flavifrons*, *Bombus appositus* 2630.
predators, food consumption, foraging behavior, *Macroleon quinquevittatus* 3670.
predatory behavior, animal models, optimal search tactics 1390.
Energy requirements,
food preferences, feeding behavior, *Capreolus capreolus*, Greece 1489.
winter, body fat, protein status, reserves, feeding behavior, *Lagopus mutus* ruestersi 371.
Energy utilization,
social behavior, correlation, physiology, *Ovis canadensis canadensis* 3627.
Engraulis mordax,
feeding behavior, food organisms, zooplankton 2677.
social behavior, feeding behavior, larvae 2833.
swimming behavior, larvae 3042.
Engraulis ringens,
feeding behavior, ventilatory behavior, larvae 2834.
Enhydra litris,
feeding behavior, food preferences, food availability, Chile Coast 344.
Enhydra litris,
movements, home range, sex differences 4062.
population structure, limiting factors, food availability, social behavior, territorial behavior, USA, California 2364.
predatory behavior, feeding behavior, food sources, *Aechmophorus occidentalis*, USA, California 2747.
Enkephalin,
drug effects, intracranial chemical stimulation, activity patterns, rats 949.
drugs, maze learning, Y-maze, mice 594.
effects on amnesia, rats 1013.
effects on, feeding behavior, sheep 3753.
Enkephalin analogs,
effects on locomotor activity, strains, mice 2112.
Enkephalin, leucine-,
intracranial self-stimulation, reinforcement, rats 4268.
Enkephalins,
effects on avoidance learning, opiates receptors role 3165.
effects on operant response, rats 3274.

Enkephalins, (continued)

effects on posture, asymmetry, rats 1989

Eusacantha gloriosus,

temperature preferences, behavior 464

Enrichment,

environmental conditions, brain weight, early experience, undernutrition, rats 3122.

environmental conditions, cortex (occipital), neurons, anatomy, rats 3154.

Eusiferia,

swimming behavior, activity patterns 3037

Eutamias histolytica,

methodology, behavior, activity, measurements 1083

Enterobolium cyclocarpum,scents, food attractancy, learning behavior, *Liomys salvini* 3952**Entrainment,**photoperiod, locomotor activity, circadian rhythms, *Peristichus nigrita* 3098**Euscorpius,**

neurons, cortex (visual), orientation, development, juveniles, cats 861

Environmental conditions,

burrows, effects on aggression, rats 1206

cocaine effects on activity patterns, rats 3221.

enrichment, brain weight, early experience, undernutrition, rats 3122

enrichment, cortex (occipital), neurons, anatomy, rats 3154

evolution, social behavior, breeding 2555

food availability, grazing, physiology, *Connochaetes taurinus* 2739oxygen depletion, behavior, emergence, *Lophophrys pholis*, *Tamias bubalis*, *Citellus mustela* 468photoperiods, circadian rhythms, physiology, entrainment, seasonal variations, *Coereba plumbeus* 1935

preferences, light intensity, operant conditioning, sheep, cattle 1102

protection, parental behavior, brood care, *Euscorpius* 2516

rearing, effects on sleep (paradoxical), rats 776

reproductive behavior, sexual receptivity, pheromones, *Thamnophis sirtalis* 2444**Environmental effects,**activity patterns, circadian rhythms, *Blatta orientalis* 4134activity patterns, locomotor activity, circadian rhythms, circannual rhythms, *Carduelis spinus* 1936alarm pheromone response, *Apis mellifera* 1129

auditory stimuli, neonates, thyroxine, audiogenic seizures, mice 1923

drift, composition, Australia, A.C.T., Condor Creek 433.

feeding behavior, grazing, sheep 2218

feeding behavior, pollinators, *Andrena erigenae* 291

females, drug effects, tetrahydrocannabinol, hormones, males, mice 2130

geographical variations, song, *Zonotrichia capensis*, Argentina 475grazing, locomotion, *Paracentrotus lividus* 274habitat, social behavior, parental behavior, dispersal, juveniles, *Marmota flaviventris* 239helicopters, social behavior, play, juveniles, *Rangifer tarandus pearyi* 241.

homing behavior, orientation, olfaction, pigeons 660

humidity, hygrotaux, temperature, acclimation, *Cryptotermes* 2794

intracranial self-stimulation, rats 3159

kin selection, altruism, mathematical models 499

lead, ontogeny, behavior, striatal dopamine neurons, rats 1624

migrations, periodicity, *Anguilla australis*, *Anguilla dieffenbachii*, New Zealand 650

motor activity, cortex ablation, rats 2029

nesting behavior, *Malaclemys terrapin*, USA, Florida 147orientation, water currents, juveniles, *Salmo gairdneri* 3009oviposition, eggs hatchability, *Chilo suppressalis*, Japan 1253population density, reproductive isolation, strains, competition, *Drosophila melanogaster* 225relative humidity, photoperiods, locomotor activity, flight activity, *Locusta migratoria migratorides* 1547.reproductive behavior, oviposition, *Lepus lawrensis tropicalis* 2390resting behavior, diurnal variations, physical activity, *Diptera* 2787roosting behavior, *Chaetura pelagica* 476

sensory stimuli, recovery of function, cortex (entorhinal) lesions, rats 2020.

sheltering behavior, sheep 2221.

spatial distribution, intraspecific relationships, *Saimiri sciureus* 1227.stress, population structure, castes, *Formica obscuripes* 457.swimming, activity patterns, *Citharichthys stigmæus* 1871

transport, stress, horses 1121

weather, flight activity, *Buteo jamaicensis* 1872.weather, seasonal variations, flight activity, *Dendroctonus frontalis* 455**Environmental factors,**activity patterns, burrowing behavior, diurnal variations, *Bufo americanus*, Canada 1558.aggregates, intraspecific relationships, *Clibanarius digueti*, USA, California Gulf 80.aggregation, oviposition, diurnal variations, *Zonocerus vanegatus* 1280.aggressive behavior, assessment strategy, reproductive behavior, resource allocation, *Scaphophis stiercoria* 59.breeding success, reproductive behavior, *Pygoscelis papua*, Marion Island 160burrowing behavior, food preferences, sexual reproduction, seasonal variations, *Thomomys botae* 489.climate, circadian rhythms, *Mustela* 761.

climate, feeding behavior, food intake, water intake, digestion, sheep 387.

effects on drug effects, hallucinogens, grooming, reflexes, cats 969.

feeding behavior, diurnal variations, food composition, larvae, *Gempylus serpens* 342.

feeding behavior, marine fauna, species composition, food composition, Aves, Irish Sea 365.

feeding behavior, substrate preferences, comparative studies, *Parus carolinensis*, *Sitta carolinensis*, *Parus bicolor*, *Picoides pubescens* 367.feeding behavior, substrate preferences, sex differences, seasonal variations, *Euphonia borealis*, USA, South Carolina 366.flight activity, wind, food, temperature, *Schistocerca gregaria* 861.foraging behavior, annual variations, *Odonotermes wallonensis*, India 2633.habitat selection, shells, *Aguridae* 424.homing behavior, orientation, olfactory stimuli, *Colaptes auratus* 1852.

homing behavior, wind, topography, pigeons 663.

horizontal distribution, diurnal variations, seasonal variations, *Acipenser transmontanus*, USA, Columbia R. 470.

livestock, handling, ethology, sheep 1101.

Environmental factors, (continued)nesting behavior, habitat selection, colonies, *Larus dominicanus*, South Africa 1302.nesting behavior, site selection, comparative studies, *Buteo platypterus*, *Buteo lineatus*, *Buteo jamaicensis*, *Accipiter cooperii*, USA, Appalachian Mts. 474.orientation, larvae, *Oncorhynchus nerka*, Canada, British Columbia, Harrison L. 647.population density, population-environment relations, pupae, spatial distribution, *Rhagoletis indifferens* 437.

population structure, social organization, Lama vicugna, Peru, Pampa Galeras Natl Reserve 3623

resting behavior, habitat preferences, *Glossina*, Niger, Mozambique 449.sexual behavior, courtship, sex ratio, spawning, *Tautoga onitis* 156.

stereotyped behavior, chlorides, open-field behavior, exploratory behavior, rats 1112.

sunlight, social environment, roosting behavior, locomotor activity, restlessness, *Turdus migratorius* 2836territorial behavior, breeding sites, *Haematopus ostralegus*, Netherlands, Vlieland I. 161.territorial behavior, competition, food availability, *Phylloscopus trochiloides*, India 87.

visual perception, pigeons 719.

Environmental stress,adaptations, photophobotaxis, aggregation, coexistence, *Pagurus samuelis*, *Pagurus hirsutiusculus ventresus*, *Pagurus granosimanus*, *Pagurus hemphilli* 2771.**Enzymatic activity,**

brain, olfactory bulb ablation, aggressive behavior, drug effects, scopalamine, rats 1964

esterase 6, reproductive behavior, *Drosophila melanogaster* 1261.pineal gland, light effects, *a-bungarotoxin*, drug effects, suprachiasmatic nucleus, circadian rhythms, rats 764.sexual behavior, 5 β -reductase, testosterone, *Streptopelia risoria* 1312.

substantia nigra, glutamic acid decarboxylase, kainic acid lesions, locomotor activity, rats 906

Enzymes,histochemistry, brain, physiology, *Epiplatys burgen* 831.

serum levels, stress, halothane, correlation, pigs 1118.

Epicauta brasiliara,

courtship, ecological distribution 1236.

Epicauta caustica,

courtship, ecological distribution 1236.

Epicauta crucera,

courtship, ecological distribution 1236.

Epicauta floydwerneri,

courtship, ecological distribution 1236.

Epicauta pennsylvanica,

courtship, aggressive behavior, dominance, males 2396.

Epilepsy,

avoidance behavior, drug effects, d-glutamine, juveniles, chickens 2077.

cortex neurotransmission, operant conditioning, *Macaca mulatta* 803

ESB, 5-hydroxytryptamine, lesions, hippocampus, paroxysmal activity, rats 1996.

focal spikes, EEG, cortex, rats 854

hippocampus, maze learning, rats 4190

hippocampus, memory, maze learning, rats 4023

hippocampus neurophysiology, activity patterns, rats 3163.

postical immobility syndrome, catalepsy, catatonias, neurotransmission, rats 2243.

Epinephelus,

visual perception, eye movements 1887

Epinephelus moara,

visual perception, eye movements 1887

Epinephelus septemfasciatus,

visual perception, eye movements 1887.

Eptesicus fuscus,

flight activity, vertical distribution, horizontal distribution, streams 4071.

orientation, homing behavior, celestial cues 4064.

vocalization behavior, echolocation 4063

Eptesicus serotinus,

communication, social interactions 48

Equilibrium,orientation, gravity receptors, sensilla, *Arenivaga* 1907.**Equipment,**cameras, night activity, *Insecta* 3335

drug self-administration, baboons 1097

intracranial self-stimulation, ESB 4420.

intragastric infusion, rats 4434.

measuring techniques, feeding behavior, mice 4436.

measuring techniques, head movements, cats 4430.

measuring techniques, temperature preferences, avoidance behavior, *Corophium volutator* 430

measuring techniques, visual perception, rotation 1071.

methodology, drinking behavior, rats 4432

methodology, social behavior, mice 4435.

Equus burchelli,aggressive behavior, fighting, *Equus hemionus* 3454.**Equus caballus,**

females, social rank, dominance, androgens effects on 97

Equus hemionus,aggressive behavior, fighting, *Equus burchelli* 3454.**Eremias grammica,**

territorial behavior, social organization, home range, population density 3468.

Eremiornis carteri,

diets, feeding behavior 2714.

Ergometrine,effects on locomotion, dopamine receptors, *Helix pomatia* 4279.**Ergotamine,**effects on locomotion, dopamine receptors, *Helix pomatia* 4279.**Erinaceus auritus,**

feeding behavior, diurnal variations, diets, sexual reproduction 3822.

Eriophora bistriata,

life cycle, colonial characteristics, aggressive behavior, reproductive behavior 214.

Eriphia squamata,predatory behavior, *Gastropoda*, Panama Gulf 264.**Eristalinæ,**

mating behavior, habitat 3510.

- Erlitophila**,
chemoreception, tongue flicking behavior 4104.
- Erit bacus rubecula**,
orientation, migrations, celestial cues 4057.
- Erithacus rubecula**,
feeding behavior, association, *Talpa europaea* 2599
feeding behavior, food preferences, fruits, Spain 349
migrations, orientation, magnetic fields 3014
- Erythrocebus patas**,
mating behavior, social interactions, agonistic behavior, captivity 1342.
- ESB**,
amygdala, kindling, rats 2049.
appetitive conditioning, classical conditioning, rats 2942
central gray, aversion learning, mice 2054
cortex (auditory), midbrain, reticular formation, thalamus, orientation
habituation, cats 3211.
dentate gyrus, effects on memory, rats 3216.
discrimination, generalization, rats 4264
discrimination, hypothalamus (medial), central gray, rats 4261
effects on learning behavior 4251
epilepsy, lesions, hippocampus, paroxysmal activity, rats 1996
hippocampus, operant conditioning, cats 3213
hippocampus, operant conditioning, defense, dogs 3212
hypothalamus, aggression, mediation, choline, muscarine, cats 3214.
hypothalamus (lateral), effects on feeding behavior, emotional behavior, rats 4463
hypothalamus (lateral), visual discrimination learning, reversal learning, reinforcement, rats 3210.
hypothalamus (ventromedial), vasoactive peptides, defensive behavior, rabbits 4062.
intracranial self-stimulation, diencephalon, operant conditioning, rats 4255.
intracranial self-stimulation, equipment, methodology 4420.
intracranial self-stimulation, extinction, rats 2053
intracranial self-stimulation, reinforcement, dopamine, rats 4265.
intracranial self-stimulation, reinforcement, drug effects, rats 4266
intracranial self-stimulation, reinforcement, rats 4260
kindling, rats 4253.
locomotor activity, *Katsuwonus pelamis* 692.
midbrain, effects on vocalization behavior, *Gecko gecko* 3218.
midbrain, predatory behavior, hypothalamus lesions, rats 3188
preexposure effects on kindling, rats 4252.
reinforcement, drug effects, pine rats, rats 1929.
reinforcement, drug effects, rats 2050.
reticular formation, latent inhibition, rats 2055
self-administration, hypothalamus, escape behavior, aversion-amelioration, rats 4263.
social behavior, communication, *Saimiri* 2060.
substantia nigra, stereotyped behavior, rats 3217.
- Escape behavior**,
agonistic behavior, aggressive behavior, attack, *Herpes sanguineus* 2332.
agonistic behavior, calcium valproate, aminooxyacetic acid effects on, mice 4390.
alarm behavior, vocalization behavior, *Spermophilus tridecemlineatus* 3430
anti-predator behavior, predator-prey interactions, *Pisaster giganteus*, *Tegula palliata*, *Callinectes ligatum* 2619.
aversion-amelioration, ESB, self-administration, hypothalamus, rats 4263.
avoidance behavior, hypertension, rats 1957.
avoidance behavior, reflexes 1591.
avoidance learning, habituation, pain, rats 3976
avoidance learning, performance, schedule effects on, rats 1723.
central nervous system development, sulfanilic acid effects on, rats 4311.
Cindecia ocellata rectilata, USA, Texas 3790.
dopamine effects on 931.
drug effects, bromocriptine, 6-hydroxydopamine, juveniles, rats 2167.
ethanol effects on, ethanol sensitivity, rats 2138.
fear conditioning, shock, rats 2927.
fear, punishment, self-punitive behavior, rats 4475
food organisms, webs, *Lepidoptera*, *Araneida* 440.
geotaxis, caves, *Troglophilus cavicola* 2803.
hypothalamus, central gray intracranial self-stimulation, approach behavior, rats 2051
latency, stress, analgesia, rats 4480.
learned helplessness, depression, rats 4464
man effects on, observation methods, *Pisces* 2832.
maze learning, *Hemigrapsus nudus*, *Hemigrapsus oregonensis* 2959.
mechanical stimuli discrimination, wind, *Periplaneta americana* 1906
methylmercury effects on, intrauterine exposure, rats 1612.
motor activity, neurons, neurophysiology, *Astacidae* 3134.
nervous system physiology, chemical stimuli effects on, *Pecten ziczac* 816.
neurons, giant axons, tails, *Astacus* 824.
neurons, tactile stimuli, *Pulmonata* 3136.
neurophysiology, tails, *Lumbricus terrestris* 1976.
ontogeny, development, activity, nerves, *Eisenia foetida* 3137
open-field behavior, anti-predator behavior, social behavior, rats, mice 3837
open-field behavior, competitive behavior, habituation, *Meriones unguiculatus* 1633.
operant response, shock, fixed interval schedule, rats 1740.
orientation, *Euphausiidae* 3775.
oxytocin, vasopressin, effects on, mice 4405.
phototaxis, mutants, eye pigmentation, *Drosophila melanogaster* 1838.
polyurethane decomposition effects on, rats 3250.
polyurethane, polyimide effects on, rats 2098.
predation vulnerability, reproduction effects on, *Lacerta vivipara* 2817
predators effects on, stress, *Saimiri* 2240.
prey, *Mus musculus*, *Crotalus viridis* 2856.
psychotropic drugs effects on, dogs 2096.
serotonin effects on, rats 2002
shock, chlorpromazine effects on, rats 2120.
stress effects on, housing, social environment, mice 2237.
swimming, antidepressants effects on, tonic immobility, rats 2094.
toxicity, pyrolysis products, rats 3261.
walking evoked response, visual stimuli, phototaxis, *Microchiroptera* 1892.
visual, neurophysiology, *Periplaneta americana* 1977
- Escape learning**,
maze learning, avoidance behavior, alcohol, prenatal experience, rats 574.
open-field behavior, genotype-environment interactions, mice 2887.
performance, *Bufo arenarum* 562.
- Escape learning**, (continued)
shock, proactive interference, avoidance behavior, learned inactivity, rats 1735.
telencephalon ablation effects on, embryos, ducks 563.
water, *Formica rufa* 1717.
- Escherichia coli**,
chemotaxis, chemical stimuli, maltose 4030.
chemotaxis, genetic factors, gene mapping 3842.
chemotaxis, motility 628.
chemotaxis, role, gene che, association flagella locomotor activity 3843.
- Eschidia zebra**,
thermoregulatory behavior, temperature tolerance, Indo-Pacific region 1562.
- Eschrichtius robustus**,
migrations, feeding behavior, Bering Sea, Chukchi Sea 667.
symbiosis, cleaning behavior, *Atheropis affinis* 1452.
symbiosis, cleaning behavior, *Atheropis affinis*, Mexico, Baja California 421.
- Eschrichtius robustus**,
sexual behavior, migrations, USA, California Coast 2489.
- Esox niger**,
predatory behavior, locomotor activity 2678.
- Esterase 6**,
enzymatic activity, effects on reproductive behavior, *Drosophila melanogaster* 1261.
- Estradiol**,
aroma, effects on sexual behavior, *Mesocricetus auratus* 186.
blocking, 2-hydroxyestradiol, 2-hydroxyestradiol, sexual behavior, rats 4409.
effects on copulation reflexes, castration, rats 2181.
implants, sexual behavior inhibition, progesterone, ovary, ablation, rats 1050.
implants, sexual behavior, ovary, ablation, rats 1051.
serum levels, sexual behavior, ovary, ablation, rats 1052.
sexual receptivity, lordosis behavior activation, rats 1335.
- Estradiol benzoate**,
effects on feeding behavior, drinking behavior, rats 4410.
stereotyped behavior, dopamine agonists, rats 3311.
- Estradiol-17 β** ,
plasma levels, sexual behavior, estrus, cattle 3326.
- Estradiol**,
drug effects, lordosis behavior, rats 4380.
effects on song, females, *Taeniopygia guttata castanotis* 3415.
- Estrogens**,
aggressive behavior, parental behavior, infanticide suppression, mice 68.
castration, vocalization behavior, courtship, males, *Streptopelia risoria* 2174.
effects on activity patterns, sex differences, rats 1058.
effects on aggressive behavior, males, *Coturnix japonica* 1036.
effects on, arousal, sexual behavior, *Papio ursinus* 1340.
effects on sexual behavior, females, *Mesocricetus auratus* 3321.
effects on sexual behavior, rats 3329.
feeding behavior, lesions, hypothalamus, body weight, rats 900.
hypothalamus (ventromedial), midbrain lesions, effects on sexual receptivity 1334.
inhibition, effects on lordosis behavior, rats 1055.
maternal behavior, ovary ablation, rats 1968.
- Estrous cycle**,
scent marking behavior, ultrasonics calling behavior, hamsters 1327.
- Estrus**,
circadian rhythms, locomotor activity, reproductive behavior, rats 3104.
mating behavior, sex hormones, *Ailurodora melanoleuca* 2502.
reproductive behavior, melengestrol acetate, monensin effects on, cattle 3353.
sexual behavior, estradiol-17 β , progesterone, plasma levels, cattle 3326.
sexual behavior, glucocorticoids effects on, pigs 3314.
- Estrus cycle**,
choline acetyltransferase, open-field behavior, exploratory behavior, mice 1109.
effects on motivation, motor activity, rats 1047.
ovary ablation, feeding behavior, diets, food preferences, rats 397.
sexual behavior, drug effects, benzamide, *Rattus rattus* 954.
sexual behavior, sex hormones, donkeys 2508.
sexual receptivity, dopamine role, rats 2498.
- Ethanol**,
effects on sleep, mice 959.
food preferences, hamsters 1504.
sensitivity escape behavior, sensitivity, strains, rats 2138.
tolerance, learning, rats 2136.
water intake, reinforcement, *Macaca mulatta* 556.
- Ethology**,
applications, reviews 4443.
behavior development, bibliographies, Primates, books 4493.
books 4491.
books 4497.
bulls, bullfighting 2214.
conferences 4500.
diversity, books 4495.
horses, senses 1099.
learning, adaptations, theories 4418.
livestock, handling, environmental factors, sheep 1101.
mathematics, books 4490.
role, population dynamics models, *Insecta* 2785.
sexual behavior, copulation, flight activity, *Eudictoria tibialis*, USA, Maryland 1265.
visual perception, motor activity, neurophysiology, niche position, *Rodentia* 1568.
- 2-Ethoxyethanol**,
alcohol, intrauterine exposure, effects on motor activity, rats 4310.
intrauterine exposure, effects on activity patterns, rats 4325.
- Ethylene glycol dinitrate**,
olfactory perception, odor thresholds, rats 4111.
- Ethymizol**,
drug effects, learning behavior, RNA biosynthesis, hippocampus, cortex, rats 960.
- Etracretan**,
drug effects, acquisition, extinction, retention, open-field behavior, rats 2157.
- Etorphine**,
discriminative stimulus ability, monkeys 1021.
- Etozadrol**,
self-stimulation, reinforcement, monkeys 3232.
- Euaпта lappa**,
feeding behavior, activity patterns, diurnal variations, Jamaica, Discovery Bay 3662.

- Eucaluanus pileatus**,
feeding behavior, feeding apparatus 2615
- Eucallipterus tiliae**,
prey abundance, predator-prey interactions, predatory behavior, cannibalism,
Adalia bipunctata 3508
- Eucelatoria**,
dehydration, water content, effects on, olfactory perception, volatiles
chemotaxis, *Hibiscus esculentus* 637
dehydration, water content, effects on, olfactory perception, volatiles,
chemotaxis, *Hibiscus esculentus* 637
- Euchoreutes naso**,
comfort behavior, cleaning behavior 492
- Eucudatus tribuloides**,
feeding behavior, food preferences 2616
- Euderma maculatum**,
feeding behavior, habitat preferences, echolocation 406
- Eudocius tibialis**,
ethology, sexual behavior, copulation, flight activity, USA, Maryland 1265
- Eudyptula minor**,
breeding behavior, Australia, Victoria 171
- Eumeces lateralis**,
predatory behavior, food consumption, food organisms 3686
- Eumetopias jubatus**,
diets, feeding behavior 1495
- Euoodynerus foraminatus**,
parental behavior, brood care, feeding, life history 1257
- Euphausia crystallorophias**,
food organisms, size distribution, Pygoscelis, Antarctica, King George I 355
- Euphausia superba**,
food organisms, size distribution, Pygoscelis, Antarctica, King George I 355
- Euphausiidae**,
food organisms, size distribution, Pygoscelis, Antarctica, King George I 355
- Eupholioptera chahneri epitroica**,
sound production, stridulation 3391
- Euphydryas aurinia**,
thermoregulatory behavior, body temperature 2816
- Euphydryas phaeon**,
host-parasite interactions, host searching behavior, parasitoids, *Apanteles*
euphydryidis 3783
hosts, defense mechanisms, parasitoids host searching behavior, *Apanteles*
euphydryidis 2800
parasitoids effects on behavior, adaptiveness 451
- Euplectrus kuwanae**,
oviposition, host selection, fecundity, parasitoids 1273
- Eupomacentrus dorsopomacanthus**,
territorial behavior, food sources 2351
- Eupytchia libye**,
oviposition, habitat preferences, host plants 2423
- Eurybrachys tomentosa**,
parasites, host specificity, *Dryinidae* 117
- Eurydyce affinis**,
feeding behavior, diets, food sources, British Isles, England Coast 3663
- Euryternus balachowskyi**,
mating behavior, nesting behavior, parental behavior 3494
- Euryternus caribaeus**,
mating behavior, nesting behavior, parental behavior 3494
- Euryternus magnus**,
mating behavior, nesting behavior, parental behavior 3494
- Eurytemora berdmanni**,
swarming behavior, feeding behavior, chemical stimuli, amino acids 3774
- Euscorpis**,
adaptations, parental behavior, brood care, protection, environmental conditions
2516
- Eutamias**,
mating behavior, courtship, vocalization, females 2490
- Eutamias amoenus**,
sexual reproduction, hibernation, annual cycles, rhythms, photoperiod,
temperature 3102
- Eutamias minimus**,
sexual reproduction, hibernation, annual cycles, rhythms, photoperiod,
temperature 3102
- Euthlypis lachrymosa**,
feeding behavior, interspecific relationships, commensalism, *Rhodinocichla rosea*
2709
- Evolutionary genetics**,
learning behavior, evolutionarily stable learning rule 500
- Evolution**,
altruism, inbreeding, kin selection 502
behavior 3840,
communication systems, effects on size distribution, *Halictidae*, *Apidae* 20
domestication, genetic factors 1581
feeding behavior, diets, fruits, food webs, *Anrozoz pallidus* 1493
locomotion, bipedalism, aquatic environment, man 3856
locomotion, walking, man 3854
mathematical models, aggressive behavior, social hierarchy 503
mating behavior, cooperation, models 505
nesting behavior, colonial characteristics, *Megachile rubi*, *Megachile texana*
2420
parental behavior, sex differences, *Vertebrata* 2515
predation, oviposition, *Ammophila aberti* 1539
reproductive behavior, selection, dispersal, *Aphelocoma coerulescens insularis*
230
selection, behavioral genetics, sociobiology 2873
sexual behavior, mate selection, females, mathematical models 2872
social behavior, breeding, *Aves*, *Mammalia* 2556
social behavior, breeding, environmental conditions 2355
social behavior, parental behavior, reproductive behavior, seasonal variations,
Calidridae 507
social behavior, population genetics, mathematical models 3839
social hierarchy, dominance, *Primates* 3645
social organization, biology, reviews 3853
social rank, dominance, subordination, feathers color, plumage badge, *Zonotrichia*
querula 94
song, vocalization behavior, *Phylloscopus* 43
speciation, behavior effects on, *Drosophila heteroneura*, *Drosophila silvestris*
446
- Evolution, (continued)**
speciation, behavior role, isolation, *Spalax ehrenbergi* 509
territoriality, interspecific relationships, aggression, natural selection,
adaptations 504
walking, locomotion, *Hominidae* 3857
- Evolutionary genetics**,
altruism, kin selection 2874
feeding behavior, geographical variations, *Thamnophis elegans* 330
kin selection, altruism, *Coleoptera* 3845
natural selection, inbreeding, interspecific relationships 1580,
natural selection, interaction, inbreeding, interspecific relationships 1579
natural selection, interaction, interspecific relationships 1578
natural selection, interspecific relationships, interaction, animal models 1577.
- Eynnis japonica**,
visual perception, light, polarization 715
- Excitation**,
arousal, amphetamine, hormones effects on, rats 1002
intracranial chemical stimulation, AMPA, substantia nigra, catalepsy, rats 795
locomotor activity, comfort behavior, 4-aminopyridine effects on, horses 2093,
motor activity neurons, habituation, defensive behavior, *Astacus* 823
septum activity, appetitive conditioning, classical conditioning, rats 839.
- Excretory products**,
distribution, social behavior, sanitation, colonies, *Mallos gregalis* 1359.
- Exocrine glands**,
secretions, trail pheromone, trail following behavior, *Polybia sericea* 2257
- Expectancy**,
matching-to-sample, reinforcement, pigeons 2964
visual discrimination, alternation learning, response choice, rats 549
- Experience**,
breeding success, parental behavior, *Branta canadensis maxima* 2456,
conspecifics effects on maze learning, *Isoptera* 586,
effects on food preferences, feeding behavior, *Odocoileus hemionus* 3737,
effects on mating behavior, mutants, mice 3524
feeding, effects on orientation, nests, *Paravespa vulgaris* 2963,
maternal behavior, maternal effects, parous state, retention, rats 1326
oviposition, discrimination, hosts, *Pteris rapae crucivara*, *Apanteles glomeratus*
3504,
sexual behavior, depression, rest, males, rats 2501.
- Exploratory behavior**,
ablation, vagus nerve, cholecystokinin, rats 3312,
activity patterns, juveniles, *Saimiri sciureus* 2226
aggressive behavior, demography, *Microtus breweri* 2330
amphetamine effects on, mice 3240
amygdala lesions effects on, monkeys 2061
atropine effects on, mice, rats 3287
brain, hippocampus, lesions, drug effects, kaicic acid, pharmacology, rats 901
brain lesions, raphe nuclei, serotonin, rats 2225
brain weight, mice 1111
chemoreception, tongue, *Sceloporus jarrovi* 1912
clonidine effects on, mediation, postsynaptic α -adrenergic receptors, rats
4346,
diazepam effects on, rats 3364
drug effects, β -endorphin, morphine, males, rats 943
drug effects on, caerulein, cholecystokinin octapeptide, diazepam, mice 4335
duration, social behavior, memory, copulation, rats 1374,
early experience, learning behavior, *Mus mus musculus*, *Mus mus musculus* 2918,
feeding behavior, drinking behavior, rats 3755
females, chemical stimuli effects on, males androgens, rats 3572
food, social organization, *Saimiri sciureus* 249
habituation, hippocampus lesions effects on, rats 2032
habituation, stimuli specificity, drug effects, methodology 1078
hippocampus lesions effects on, rats 910
hippocampus lesions effects on, rats 2037
histamine effects on, intracranial chemical stimulation, hippocampus, rats 4169
hormones effects on, sex differences, rats 1058
host selection, parasitoids, *Anisopteromalus callosus*, *Callosobruchus maculatus*
3161
juveniles, ontogeny, *Gymnorhina tibicen* 1108
lead, parasites effects on, mice 3229
lithium effects on, rats 2148
locomotor activity, *Rattus norvegicus*, *Acomys cahirinus* 3362
malnutrition effects on, rats 1603
Mammalia, insect neurotransmitters effects on 836
maxillary palps, movements, *Gryllus bimaculatus* 4151
maze learning, memory, rats 1817
methamphetamine effects on, mice 2085
naloxone effects on, mice 3270
nicotine intrauterine exposure effects on, guinea-pigs 4305
novelty, age effects on, mice 3363
novelty, genetic factors, albinism, mice 2886
novelty, hybrids, inbreeding, mice 4465
novelty, scopolamine effects on, rats 3290
olfactory bulb lesions effects on, mice 4224
ontogeny, *Sciuridae* 520
ontogeny, sociological aspects, proteins deprivation, rats 524
open-field behavior, choline acetyltransferase, estrus cycle, mice 1109
oxprenolol, diazepam effects on, rats 976
parasites, silk, exposure time, diurnal variations, *Apanteles melanoscelus*,
Lymantria dispar 450
pinbedil effects on, rats 939
problem solving, cognitive mapping, rats 4016
protein deficiency effects on, diets, rats 1793
psychotropic drugs effects on, mice 1017
sleep (paradoxical), atonia, cats 3114
spontaneous alternation, reinforcement, novelty, rats 4466
stereotyped behavior, chlordes, rats 1112,
tongue flicking, chemical stimuli, odors, *Crotalus* 4106,
tremor, mice 3850
ventilatory behavior, respiration, respiratory function, rats 1110.
- External stimuli**,
conditioned suppression, reinforcement, associative learning 1641,
defensive behavior, response, ontogeny, rats 2820
delayed response, memory, forgetting, matching-to-sample, pigeons 1811,
effects on feeding behavior ontogeny, rats 1516,
nesting behavior, feeding behavior, ontogeny, juveniles, *Alcidae* 1600.

External stimuli, (continued)

open-field behavior, social behavior, hypoxia, rats 1572.
 orienting response, oral cavity, *Trinitrus vulgaris*, *Trinitrus cristatus* 4043.
 peripheral nervous system depolarization, activity patterns rhythms, *Felis* 840.
 photoperiods, annual cycles, sexual reproduction, gonads, *Ploceus philippinus* 169.
 role, blocking, stimulus control, rats 1643.
 role, mating behavior, courtship, *Chrysopa perla* 2401.
 sucrose, sodium chloride, suppression, taste perception 4099.
 temperature, tactile perception 4094.

Extinction,

acquisition, drug effects, etracetam, rats 2157.
 avoidance behavior, adrenal gland steroids, antagonism, rats 3313.
 avoidance behavior, melanotropin fragments effects on, rats 4363.
 avoidance behavior, shock, response competition, rats 3898.
 avoidance learning, cortex (prefrontal) lesions effects on, rats 3193.
 avoidance learning, fear, flooding, rats 1634.
 avoidance learning, flooding, rats 3971.
 avoidance learning, thyroberin effects on, rats 4413.
 classical conditioning, rats 1697.
 deprivation, reinforcement schedules, rats 3896.
 discrimination learning, avoidance learning, *Carassius auratus* 3990.
 effects on aggressive behavior, stage model, man 3891.
 fear conditioning, sex hormones, testosterone, progesterone, emotional behavior, rats 1049.
 habituation, shock, rats 3897.
 intertrial interval, rats 3895.
 intracranial self-stimulation, ESB, rats 2053.
 learning behavior, punishment, reinforcement, response acquisition, *Melipona quadrifasciata antidiodes* 2925.
 multiple schedule, behavioral contrast, autoshaping, pigeons 3911.
 multiple schedule, pecking behavior, social bonds, juveniles, ducks 1672.
 operant response, reinforcement schedules, pigeons, *Corvus brachyrhynchos* 3893.
 overtraining, classical conditioning, *Carassius auratus* 530.
 potentiation, overshadowing, odors, color, *Apis mellifera* 2962.
 punishment, fear conditioning, operant conditioning, sex difference, rats 1744.
 recovery, autoshaping, classical conditioning, CS, reinforcement, pigeons 537.
 reinforcement, learned helplessness, rats 1675.
 reinforcement schedules, acquisition, rats 1632.
 response prevention, avoidance behavior, delay, signals, rats 1738.
 self-punitive behavior, CS, *Rattus rattus* 544.
 self-punitive behavior, drug effects, methylphenidate, conditioned response, *Rattus rattus* 964.
 sign-tracking, goal-tracking, reinforcement schedules, rats 3936.
 taste aversion, conditioned response, subdiaphragmatic vagus, rats 4154.
 taste aversion learning, age effects, mice 1631.
 variable ratio schedule, continuous reinforcement, rats 1635.

Extractants,

Pinus ponderosa, effects on feeding behavior, *Ips paraconus* 1425.

Extracts,

host plants, effects on feeding behavior, *Dendroctonus frontalis*, *Pinus taeda* 1546.

Extrapolation,

cognitive ability, reinforcement schedules, patterns, food, rats 1677.

Eye,

ablation, effects on activity patterns, circadian rhythms, *Helisoma trivolis* 3088.
 ablation, effects on maze learning, rats 888.
 coloration, visual communication, *Aves* 3409.
 coordination, vision, neck, muscles, vestibular nystagmus, cats 3129.
 functional morphology, visual perception, *Strix aluco* 4084.
 movement measuring techniques, photoelectric properties 1072.
 movements, stabilization, receptive field mapping, methodology, *Primates* 4442.
 movements, visual discrimination learning, *Macaca arctoides* 1797.
 movements, visual perception, *Pisces* 1887.
 mutants, pigmentation, phototaxis, *Drosophila melanogaster* 1838.
 mydriasis, morphine, drug tolerance, rats 999.
 neurophysiology, circadian rhythms, locomotor activity, *Bursatella leachi* p1ei 3089.

Eyeld conditioning,

memory, cerebellum ablation, rabbits 4177.
 role, cerebellum, rabbits 1993.
 UCS, effects on, preconditioning, CS, rabbits 1694.

Face,

predators, visual discrimination, recognition, coral reefs, *Pisces* 3809.
 recognition predators, visual discrimination, *Chromis caeruleus* 3808.

Fagus grandifolia,

food organisms, seasonal variations, *Sus scrofa*, USA, Tennessee 485.

Falco,

predators, prey, recognition, avoidance behavior, *Helogale undulata rufula*, Tockus 3766.

Falco chiqueura,

nesting, habitat preferences, diets, feeding behavior, Zambia 1565.

Falco peregrinus,

feeding behavior, marine environment 2730.

reproductive behavior, predatory behavior, breeding success 3718.

Falco peregrinus tundrus,

migrations, geographical distribution, USA, Rhode Island Coast 2908.

Falco sparverius,

foraging behavior optimization, predation 3709.

habitat preferences, winter, sex differences 472.

Fall,

migrations, orientation, *Aves*, Canada 4050.

Families,

parental behavior, altruism, territory, *Hyllobates klossii* 211.

Fannia canicularis,

chemotaxis, *Allium cepa*, microorganisms, volatiles, synergism 638.

Fat metabolism,

drug effects, amphetamines, suppression, food intake, *Rattus rattus* 2086.

Fatigue,

visual discrimination, tracking 1879.

Fats,

food preferences, morphine effects on, rats 4386.

Fatty acids,

vagina secretions, pheromones, chemical communication, *Pan troglodytes* 3439.

Fear,

adrenocorticotrophic hormone, rats 1958.
 avoidance learning, flooding, rats 3971.
 conditioned inhibition, shock, rats 3980.
 conditioning, UCS, shock, adaptations, rats 569.
 conspecifics:
 disinhibitory effect, analogs, theories, dogs 2228.
 escape behavior, punishment, self-punitive behavior, rats 4475.
 extinction, flooding, rats 1634.
 habituation, handling, chickens 3342.
 heart rate, rearing, chickens 4467.
 novelty, cannabidiol, diazepam effects on, rats 4368.
 novelty, pentobarbital effects on, rats 2128.

Fear conditioning,

amnesia, hypothermia, rats 4011.
 p-chloramphenicol effects on retention, rats 1827.
 classical conditioning, US, CS, rats 2186.
 diazepam effects on, rats 4374.
 effects on adrenaline plasma levels, monkeys 2231.
 effects on avoidance learning, rats 582.
 effects on heart rate, monkeys 2229.
 escape behavior, shock, rats 2927.
 latent inhibition, heart rate, rats 1636.
 memory, recovery of function, retention, lesions, amygdala, hippocampus, rats 3184.
 naloxone effects on, rats 2113.
 operant conditioning, punishment extinction, sex difference, rats 1744.
 retention, lesions effects on, amygdala, hippocampus, rats 4227.
 retention, visual stimuli, rats 3966.
 sex hormones, memory, rats 2957.
 sex hormones, testosterone, progesterone, extinction, emotional behavior, rats 1049.
 trace conditioning, interstimulus interval, rats 1789.
 UCS, shock, adaptations, rats 569.

Feathers,

color, mate selection, pigeons, feral populations 173.
 color, plumage badge, social rank, dominance, *Zonotrichia querula* 94.
 defective mutant, wings, flight activity, chickens 3043.
 maturation, reproductive behavior, agonistic behavior, *Setophaga ruticilla* 513.
 morphology, effects on feeding behavior, *Empidonax traillii* 375.
 plumage, display, social hierarchy, *Paradisaea decora* 44.

Fecal populations,

urine odors, preferences, juveniles, guinea-pigs 1178.

Feces,

Larus, feeding behavior, *Arenaria interpres* 3720.

olfactory stimuli, conspecifics recognition, *Damaliscus dorcas dorcas* 3426.

Fecundity,

Boophilus microplus, parasites, *Babesia bovis* 1245.
 emergence, oviposition, *Chilo suppressalis*, Japan 1253.
 fertility, reproductive behavior, *Meriones ungulatus* 1330.
 mating behavior, oviposition, *Hylotrupes bajulus* 1283.
 mating behavior, radiation effects on, males, *Culex tarsalis* 145.
 oviposition, host selection, parasitoids, *Euplectrus kuwanae* 1273.
 population density, aggressive behavior, *Citellus pygmaeus* 3474.

Feedback,

biomechanics, learning behavior, heart rate, rabbits 762.
 control, leg, muscles, *Carassius morosus* 687.
 control, leg muscles, electrophysiological recording, *Carassius morosus* 688.
 models, circadian rhythms, locomotor activity, light effects, temperature effects, *Hemideina thoracica* 751.
 stimuli, avoidance behavior, fixed interval schedule, rats 584.

Feeding,

activity patterns, habitat utilization, *Presbytis pileatus*, Bangladesh, Madhupur Forest 2589.
 activity patterns, rhythms, measuring techniques, electronic equipment, *Channos channos* 3336.
 aggressive behavior, *Bison bonasus*, Czechoslovakia 3447.
 anti-predator behavior, vigilance, groups, *Antidorcas marsupialis* 3831.
 brood care, life history, *Anticrostocerus adiabatus*, *Eudynerus foraminatus* 1257.
 circadian rhythms, sheep 763.
 competition, Formicidae, Turkey 2658.
 competition, vocalization behavior, auditory communication, juveniles, *Cuculus canorus* 3815.
 CS, operant response 1639.
 deposits, feeding behavior, efficiency, *Ocyrops quadrata* 280.
 deterrents, plant extracts, *Thuja plicata*, *Pissodes strobi*, *Alicia ambiens* 2638.
 diel variations, activity patterns, social behavior, *Alouatta seniculus*, Venezuela 3866.
 discrimination learning CS, effects on stress, cats 552.
 drinking, threshold, models 3332.
 drug effects, opioids, agonists, antagonists, rats 2150.
 drug effects, stereoselectivity, antagonists, agonists, opioids, rats 2131.
 drug effects, triptophan, rats 2154.
 economics, social organization, *Pan troglodytes*, Papia 250.
 effects on motor activity, stereotyped behavior, neurophysiology, *Aplysia californica* 4182.
 environmental effects, humidity, temperature, *Cryptotermes* 2794.
 experience, effects on orientation, nests, *Paravespa vulgaris* 2963.
 food composition, feeding behavior, food consumption, *Ebalia tuberosa* 285.
 food intake, drinking behavior, water intake, dogs 1514.
 foraging behavior, *Phuvialis squatarola*, *Phuvialis dominica*, *Arenaria interpres*, Canada, Manitoba 2696.
 frequency, food intake, growth, *Pleuronectes platessa* 3694.
 habitat utilization, territorial behavior, *Kobus ellipsiprymnus*, Zimbabwe 1370.
 larvae, workers, *Bombus terrestris*, *Bombus terrestris* 308.
 migrations, geographical variations, seasonal variations, *Gadus morhua callarias*, Baltic Sea 651.
 mud, sodium requirements, sex differences, *Pteris rapae* 2632.
 nesting behavior, colonial characteristics, *Geolochelone nilotica* 3810.
 norepinephrine, intracranial chemical stimulation, morphine, hypothalamus (ventromedial), rats 2064.
 nymphs, mother-offspring interactions, *Perisphaerus* 1343.
 open-field behavior, drug effects, anxiolytic drugs, rats 2129.
 operant conditioning, extinction, ablation, amygdala, rats 3207.

Feeding. (continued)

- operant response, stimuli, training misbehavior, rats 1693
orientation, perception, aquatic environment, Aves 4054
parental behavior, males, offspring, secondary nestlings, nutritional status,
 food availability, *Dolichonyx oryzivorus* 1346
pests, effects on avoidance behavior, grazing, cattle, *Musca autumnalis* 4453
pollution effects, drilling mud, *Homarus americanus* 3767
schooling behavior, phototaxis, rheotaxis, larvae, *Rana boecksheni* 226
sexual receptivity, mating, oviposition, *Amblyomma americanum* 3518
site selection, olfactory perception, ontogeny, juveniles, rats 1625
social behavior, ecological distribution, movements, seasonal variations,
 Corvidae 2894
Feeding apparatus.
 feeding behavior, Calanoida 2615
Feeding behavior.
 ablation, brain, forebrain, learning behavior, *Carassius auratus* 343
 Abra nitida, *Abra longicollis* 429
 abundance, *Velamen parallelum* 3661
 Acari, Netherlands, Maarsseveen 1 L. 2612
 activity patterns, coastal environments, sheep 2215
 activity patterns, conservation, wildlife conservation, Dugong dugon 2902
 activity patterns, diurnal variations, Echinodermata, Jamaica, Discovery Bay
 3662
 activity patterns, dogs 384
 activity patterns, *Scopimera globosa* 3768
 activity patterns, time budgeting, temporal variations, *Colobus badius*
 in contrarius, Kenya, Tana R. 517
 age effects, nutrient requirements, food sources population density, *Phytoseiulus*
 persimilis, *Amblyseius degenerans* 284
 aggressive behavior, opportunistic scavenging, coastal zone, Aves 2728
 aggressive behavior, sympatric populations, *Salmo gairdneri*, *Salmo clarki* 2321
 amygdala lesions effects on, monkeys 2061
 amygdala lesions, rats 4231
 anterior dental microwave, Pan troglodytes troglodytes, Gorilla gorilla gorilla,
 Papio hamadryas 4437
 Artenas forbesi, Mercenaria mercenaria 1398
 association, leaf litter, *Turdus philomelos*, *Talpa europaea* 2600
 association, *Talpa europaea*, *Turdus merula*, *Erithraxis rubecula* 2599
 Asteroidea 263
 biology, *Litodactylus leucogaster* 1420
 body fat, protein status, reserves, energy requirements, winter, *Lagopus mutus*
 ruepsis 371
 bombyx effects on, intracranial chemical stimulation, hypothalamus, rats 4174
 bone collecting behavior, *Hylaena hyaena*, Israel 2764
 bones, *Crotophaga sulcirostris* 310
 Brachyops megacephalus, Sicily 2782
 breeding sites, agricultural land, *Agelais tricolor*, USA, California 354
 breeding success, forests, *Parus major* minor, Japan 1308
 brood care, parasitism, *Regulus calendula*, *Molothrus ater* 2525
 burrowing, comparison, *Glycyrrhiza alba*, *Glycyrrhiza maculata* 271
 Calanus finmarchicus, *Calanus glacialis*, *Calanus hyperboreus* 1402
 caloric, magnesium effects on, ventricles (cerebral) ingestion, sheep 799
 Callithrix penicillata penicillata, Brazil, Minas Geras State 2766
 cannibaloid, diazepam effects on, rats 4368
 cannibalism, carrion, *Crotalus viridis hellei* 3684
 cannibalism, infants, Pan troglodytes 3765
 cannibalism, larvae, *Diachasma obliqua* 321
 Carcharias plumbeus 1454
 carnivores, carrion, *Crotalus atrox*, *Elaphe obsoleta* 325
 carnivory, *Pyrrhula pyrrhula* 2718
 carrion, conspecifics, *Mammalia* 3751
 carrion, winter, *Stercorarius parasiticus* 2733
 Chanda commersoni 1458
 Chaoborus trivittatus, larvae, predation, zooplankton, *Daphnia pulicaria* 1419
 chemical stimuli, amino acids, assays, *Hydra japonica* 3655
 chemical stimuli, amino acids, carbohydrates, food organisms, *Uca pugnator* 467
 chemoreception, anatomy, electrophysiological recording, *Phormia regina* 322
 chemoreceptors signals effects on, *Phormia regina* 1902
 circadian rhythms, *Bulinus africanus* 4135
 circadian rhythms, food availability, rats 4140
 circadian rhythms, suprachiasmatic nuclei ablation effects on, rats 4234
 circadian rhythms, suprachiasmatic nucleus lesions, rats 3204
 classification, *Bruchidae* 315
 cleptoparasitism, age, *Fregata magnificens* 2729
 cleptoparasitism, aggressive behavior, *Sula bassana*, *Phalacrocorax carbo*, British
 Isles, *Stratibulidae* 3864
 cleptoparasitism, new records, Araneae, Cecidomyiidae, USA, Florida 1415
 cleptoparasitism, predation, *Argyrodia* 1416
 clones, resource partitioning, *Poecilopsis 2 monacha-lucida* 2679
 colliculus lesions effects on, rats 3202
 colonies, intraspecific relationships, communication, Aves 1166
 colonies, *Macrotermes michaelseni*, Kenya 1421
 colonies, *Macrotermes michaelseni*, Kenya 1422
 comparative studies, strains, host plants, *Nephotettix cinctipes* 1439
 competition, food availability, guinea, Aves, USA, Arizona 363
 competition, resource utilization, seasonal variations, geographical variations,
 Charadrii, Peru 364
 competition, *Trigona*, *Phaethoniscus*, Costa Rica 1522
 conditioned response, lesions, *Substantia nigra*, rats 2019
 contrafreeloading phenomenon, rats 1506
 Crevallipolia abbreviata, Haiti Coast 3656
 correlation, brain, anatomy, *Heteropneustes fossilis*, Chana punctatus, Labo
 robita 832
 cortex ablation, age effects, rats 1956
 cortex lesions, sensorimotor ability, rats 3198
 corticotropin modulation, *Columba livia* 4402
 crop content, diel variations, seasonal variations, Tetraonidae 2694
 Desprocyus, South Africa 445
 deposits feeding, efficiency, *Ocyropsis quadrata* 280
 deterrents, acids, oils, *Aleurites fordii*, *Anthonomus grandis* 300
 diazepam effects on, rats 4365
 diel variations, predation, *Ardea herodias* 2699
 diets, activity patterns, *Ooecygon megalops* 2761
 diets, *Ausuboris nobilis* 2622
 diets, autecology, Pan paniscus, Zaire 3762
 diets, brood rearing, *Desmognathus fuscus fuscus* 329

Feeding behavior. (continued)

- diets, *Callinectes arcuatus*, *Callinectes toxotes* 2614
diets, Cancer irroratus, Canada, Nova Scotia Coast 2605
diets, coastal environment, *Anonyx capensis* 2749
diets, *Coccinellidae* 2644
diets, *Collocalia esculenta* 2708
diets, *Drepana viridis*, *Drepana temminckii*, *Neodrepana ransonneti* 1451
diets, effects on gonads, *Zonotrichia leucophrys gambelii* 3549
diets, *Eriacae auratus*, USSR, Zaunguzskiy Karakumy 3822
diets, *Eumetopias jubatus* 1495
diets, Falco chiqueira, Zambia 1565
diets, food availability, Meles meles, British Isles, Scotland 1497
diets, food organisms, *Andrus spinolella* 3707
diets, food preferences, estues cycle, ovary ablation, rats 397
diets, food sources, *Balaena mysticetus*, USA, Alaska Coast 2759
diets, fruits, evolution, food webs, *Antrozous pallidus* 1493
diets, home range, *Carimura* 2754
diets, *Hylobates klossii* 2767
diets, *Ilyanassa obsoleta* 1409
diets, *Larus audouinii*, *Larus argentatus michaels* 3705
diets, larvae, *Anchoa mitchilli*, *Anchoa lamprotaenia* 2685
diets, lithium chloride, bait shyness, aversion, *Canis latrans* 391
diets, *Loilo paelei* 2603
diets, *Lophogobius cyprinoides* 2671
diets, *Lophogobius cyprinoides*, Florida Coast 1459
diets, mathematical models, predator-prey interactions, predators training,
 diets, feeding behavior, mathematical models, predator-prey interactions,
 predators training 1062
diets, *Melipapha virescens*, *Eremiornis carteri*, *Malurus leucopertus leucopertus*
 2714
diets, *Ophiura texturata*, Denmark, Oeresund, Denmark, Isefjord 1397
diets, phenology, food availability 2765
diets, Pisces 2684
diets, *Potamochoerus porcus* 2753
diets, predation, *Accipiter gentilis*, Sweden 1480
diets, *Rodentia* 1498
diets, seasonal variations, *Penaeus monodon* 3659
diets, seasonal variations, *Platycephalus eximius*, *Platycephalus adscitus*, Australia
 1472
diets, seasonal variations, *Portunus pelagicus*, India 1392
diets, seasonal variations, *Procyon lotor*, Canada, Quebec 2737
diets, *Sebastes serranoides* 1456
diets, *Sirenia* 386
diets, *Sorex minutus*, *Sorex araneus*, British Isles 1519
diets, *Sterna hundo* 3706
diets, *Sterna hundo*, *Sterna paradiisae*, *Larus philadelphia*, Canada, New
 Brunswick, Deer I. 2700
diets, stranding, *Hygophom benoitii*, *Mycophorum punctatum* 3695
diets, summer, salix, *Lagopus lagopus* 1474
diets, *Tadarda aegyptiaca thomasi*, Insecta 2744
diets, taste aversion learning, *Dipodomys merriami*, *Dipodomys microps* 3982
diets, taste preferences, amino acids, *Suncus murinus* 3733
diets, territorial behavior, coral reefs, Pisces, Japan Coast 1461
digestion, nutrition, *Hydrozoa* 260
dispersal, activity patterns, mating behavior, *Batocera lineolata* 1593
diurnal variations, flight activity, *Helicoverpa armigera* 4131
diurnal variations, food composition, environmental factors, larvae, *Gemphys*
 serpens 342
diurnal variations, periodicity, *Oncorhynchus kisutch*, *Salmo gairdneri* 345
diurnal variations, photoperiod, *Locusta migratoria* 3676
diving, *Aptenodytes patagonicus* 1478
diving, energy budget, females, *Arctocercus gazella*, Falkland Is. 1496
division of labor, caste differentiation, social organization, *Pogonomyrmex*
 owynbee 1362
domestic animals, agricultural practices 4444
drinking behavior, exploratory behavior, rats 3755
drinking behavior, regulation, rats 3754
droving, food availability, *Uca vocans vocans*, *Uca lactea perplexa* 2623
drug effects, amphetamines, anorexia nervosa, juveniles, rats 2132
drug effects, anorectic agents, reinforcement, rats 4351
drug effects, naloxone, narcotics antagonists, *Macaca mulatta* 1025
echolocation, habitat utilization, *Chiroptera*, Australia, Queensland, Chillagoe
 3740
efficiency, food organisms, *Macrodon quinquemaculatus*, *Phlebotomus* 1435
emotional behavior, tail pinch effects on, ESB, hypothalamus (lateral), rats
 4463
energetics, chickens 3722
energetics, food organisms, *Callinectes sapidus*, *Geukensia demissa* 2618
environmental effects, *Lymantia monacha* 305
estradiol benzoate effects on, rats 4410
estrogens, lesions, hypothalamus, body weight, rats 900
eurydine organisms, *Ilyanassa obsoleta* 270
Eurydine affinis, British Isles, England Coast 3663
extracts effects on, host plants, *Dendroctonus frontalis*, *Pinus taeda* 1546
feathers morphology effects on, *Empidonax traillii* 375
feeding apparatus, Calanoida 2615
feeding mechanisms, *Motacilla alba* 3726
feeding mechanisms, surface water particles, neustophagia, *Podocneminae* 2660
filter feeders, cycles, *Cobitis taenia* 2680
filter feeders, Insecta 289
filter feeders, 30 species, *Octocorallia* 3667
flight activity, diurnal variations, light intensity, *Trochilidae*, Brazil 2734
foods effects on efficiency, *Cinclus cinclus* 347
food attractancy, mathematical models, *Misgurnus anguillicaudatus* 2683
food availability deprivation, body weight, rats 3742
food availability, *Glyptothorax pectinopterus* 2675
food availability, ingestion, optimization, models 253
food availability, interspecific relationships, *Lutra lutra*, *Mustela vison*,
 British Isles 380
food availability, *Phytoseiulus persimilis*, *Amblyseius degenerans* 1399
food availability, *Scaptomyza aetnae*, *Scaptomyza vicinus* 1426
food composition, diurnal variations, Teleostei, Madagascar 1473
food composition, dominance, range, comparative studies, *Melipaphidae*, New
 Zealand 403
food composition, food consumption, *Ebala tuberosa* 285
food composition, food preferences, specialization, *Apis mellifera* 1417

Feeding behavior, (continued)

- food composition, food selection, fish larvae, Scombridae 340
 food composition, predators, sex differences, habitat preferences, *Trionyx muticus* 327.
 food composition, seasonal variations, introduced species, *sus scrofa*, USA, Tennessee, Great Smoky Mts. 1490
 food composition, winter, *Capeolus capreolus* 2760
 food consumption, filter feeders, *Petrolisthes eriomerus* 3664.
 food consumption, social environment effects on, *Acheta domestica* 3672
 food intake, dopamine, dynorphin (1-13) effects on, rats 4377.
 food intake, clazepam, effects on, dogs 2152.
 food intake, inhibition, cholecystokinin, peptides, sheep 394
 food intake inhibition, 5-hydroxytryptamine, hypothalamus, rats 1966
 food intake, obesity, satiety, hormones, mice 385.
 food intake, *Quelea quelea* 3701.
 food intake regulation, calories dilution, *Macaca mulatta* 416
 food intake, role, hypothalamus, rats 1959.
 food intake, short-term regulation, *Lichena indistincta* 377.
 food intake, sucrose effects on, rats 3746.
 food intake, temperature effects, humidity, heat, chickens, egg laying 1597
 food intake, water intake, environmental factors, digestion, sheep 387.
 food organisms, *Asio flammeus*, *Gastropoda* 2723.
 food organisms, *Bufo americanus*, *Agelastes phoeniceus* 2663.
 food organisms, burnt ground, *Heptalus juveniles*, *Pyrrhocorax pyrrhocorax* 2713.
 food organisms chemical stimuli, *Chrysophrys major*, *Perinereis brevicornis* 3689.
 food organisms, diel variations, *Siphonophora*, *Sargasso Sea*, USA, Washington Coast 278
 food organisms, *Haliaeetus leucophaea*, *Testudines* 3702.
 food organisms, juveniles, *Salmo gairdneri* 3693.
 food organisms, *Larus canus*, *Oreophthera brunata*, British Isles, Mainland 348.
 food organisms, *Lepomis macrochirus*, *Daphnia pulex* 2668.
 food organisms, *Muscicapa striata*, *Inachus* *io* 2710
 food organisms, novelty, *Mimus polyglottus* 2720.
 food organisms, *Nyctanassa violacea*, *Crustacea* 3727.
 food organisms, zooplankton, *Engraulis mordax*, 2677.
 food plants, *Cortidae*, 11 species, Costa Rica, Guanacaste Province 1433.
 food plants, water content, food preferences, *Atta colombica* 1423.
 food preferences, adults, *Rhinomys viridivirens*, Canada, British Columbia, Vancouver 1. 1427.
 food preferences, *Aves*, *Anolis*, *Grenada* 351.
 food preferences, bacteria, *Haemaphysalis* 3660.
 food preferences, diets, *Colodactylus amanonius* 2661.
 food preferences, diets, *Ebalia tuberosa* 288.
 food preferences, diets, rangelands, *Lepus californicus* 2758.
 food preferences, diets, *Rhinopoma mophyllum* *kinneari*, India, Rajasthan Desert 2740.
 food preferences, diurnal variations, *Lissodiplosis peronii*, Chile Coast 393.
 food preferences, *Echinometa lucunter*, *Lytechinus variegatus*, *Eucidaris tribuloides* 2616.
 food preferences, energy requirements, *Capeolus capreolus*, Greece 1489.
 food preferences, experience effects on, *Odocoileus hemionus* 3737.
 food preferences, food availability, *Engraulis ringens*, *Clupea bentincki*, Chile Coast 344.
 food preferences, food composition effects on, *monoterpens*, *Sciurus aberti* 1508.
 food preferences, food organisms biomass, age effects, *Tyto alba* 374.
 food preferences, fruits, *Ertthacus rubecula*, Spain 349.
 food preferences, growth, *Poecilia reticulata* 335.
 food preferences, *Haematopus ostralegus*, *Mytilus edulis* 3716.
 food preferences, *Hyla cinerea* 3680.
 food preferences, juveniles, *Aepyrocero melampus* 409.
 food preferences, leaf litter, freshwater environments, *Potamopyrgus jenkinsi* 1396.
 food preferences, *Lynx pardina*, Spain 379.
 food preferences, *Mustela vison*, *Lutra lutra* 2750.
 food preferences, nutrients, drug effects, *naloxone*, rats 983
 food preferences, *Oreaster reticulatus*, *US Virgin Is.*, St. Croix Coast 3657.
 food preferences, *Ovis canadensis*, *USA*, Montana 382.
 food preferences, predators, *Anura* 328.
 food preferences, predators, *Mariposa tigrina*, *Insecta* 286.
 food preferences, *Scaphiophis madraspatanum* *capitulum*, *Arachnida* 1438.
 food preferences, seasonal variations, *Callorhynchus* *urinus* 2757.
 food preferences, seasonal variations, *Gnathamitermes tubiformans*, USA, Texas 292.
 food preferences, seasonal variations, *Milvus milvus*, British Isles, Wales 357.
 food preferences, seasonal variations, *Tyto alba*, British Isles, Wales 350.
 food preferences, seeds, *Pogonomyrmex rugosus*, *Veromermis pergamendi* 1437.
 food preferences, *Stercorarius skua* 359.
 food preferences, sympatric populations, *Pygoscelis*, Antarctica, King George I. 355.
 food preferences, taste perception, food plants, chemical stimuli, *Sciurus aberti*, *Pinus ponderosa* 392.
 food preferences, *Toxothrypanus theobaldi* 307.
 food preferences, winter, *Larus capus* *pambasilius* 404.
 food preferences, winter, *Cervidae*, Poland 3739.
 food preferences, zooplankton, larvae, *Clupea harengus* 3700.
 food selection, grazing, predation, *Valenciennellus tripunctulatus*, Mexico Gulf 332.
 food selection, predation, *Procyon lotor*, *USA*, North Dakota 1491.
 food selection, predators, prey size, competition, *Sorex araneus* 399.
 food selection, predators, trophic relationships, *Valenciennellus tripunctulatus* 333.
 food sources, *Cercopithecus pygerythrus*, *Acacia tortilis*, *Acacia xanthophloea* 1520.
 food sources, *Enhydra lutris*, *Aechmophorus occidentalis*, USA, California 2747.
 food sources, vocalization behavior, *Parus atricapillus* 2295.
 food storage, *Petroica australis* 360.
 foraging behavior, colonial characteristics, *Camponotus vagus* 1412.
 foraging behavior, *Nucifraga columbiana* 2726.
 foraging behavior, *Olea europaea* orchards, *Aves* 2731.
 foraging behavior, predators, *Oenanthe oenanthe* 1481.
 foraging behavior, social behavior, *Sterna sandvicensis* 2706.
 foraging behavior, winter, *Alauda arvensis* 2732.
Forcipomyia taiwana 314.
 frugivory, *Lanius excubitor*, Algeria 3721.
 functional morphology, diets, *Cassida* 2625.
 functional morphology, physiology, *Peromphthalus koeleuteri* 336.

Feeding behavior, (continued)

- geographical variations, evolutionary genetics, *Thamnophis elegans* 330.
 grazing, cattle 2212.
 grazing, environmental effects, sheep 2218.
 grazing, food availability, physiology, environmental conditions, *Connochaetes taurinus* 2739.
 grazing, food preferences, environmental effects, *Ovis aries* 2220
 grazing, locomotor activity, horses 3347.
 grazing, pasture vegetation patterns effects on, sheep 383.
 ground, *Oreolus oreolus* 3725
 gustatory stimuli, vitamins deficiency, retinol, juveniles, chickens 373.
 habitat preferences, echolocation, *Euderma maculatum* 406.
 habitat preferences, nesting behavior, reproductive behavior, breeding success, *Toxostoma curvirostre*, *Toxostoma longirostre* 168.
 habitat preferences, predation, *Lepomis macrochirus* 2672.
 habitat utilization, *Macaca fascicularis*, *Mauritius* 3763.
 handling effects on, *Aplysia* 1406.
 hematophagy, chemical stimuli, *Simulium venustum* 2649.
 hematophagy, 15 families, *Diptera*, Sweden 2637.
 hibernation, insulin effects on, *Glis glis*, *Eliomys quercinus*, *Spermophilus lateralis* 1503.
 histology, physiology, pancreas, *Huso huso*, *Acipenser ruthenus* 334.
 hoarding behavior, waterboarding, *Tamias striatus* 1492.
 host plants deterrants, *Pristiphora erichsoni* 313.
 host plants, habitat, *Stylomatophora* 2617.
 host plants leaves morphology effects on, *Adalia bipunctata* 2647.
 host plants, *Stephanitis pyrioides* 1432.
 host searching behavior, visual stimuli, olfaction, *Glossina* 318.
 host-parasite interactions, *Heliothis zea*, *Leguminosae* 2627.
 hosts, *Bugabug erythrorhynchus*, *Ungulata* 2717.
 hunger effects on chemoreception, prey odors, *Crotalus viridis*, *Crotalus enyo* 2659.
 hypothalamus lesions effects on, rats 4242.
 interspecific relationships, commensalism, *Aves* 2709.
 interspecific relationships, *Hydrochoerus hydrochaeris*, *Aves* 2601.
 interspecific relationships, kleptoparasitism, *Passer domesticus*, *Sphex ichneumonius* 376.
 juveniles, exploratory behavior, play, *Gymnorhina tibicen* 1108.
 juveniles, hunger effects on, *Oncorhynchus gorbuscha* 339.
 juveniles, *Oncorhynchus gorbuscha*, *Oncorhynchus keta*, Alaska Coast 1457.
 juveniles, weaning, rats 1518.
 laboratory animals, food intake, water intake, *Macaca fuscata* 415.
Larus fages, *Arenaria interpres* 3720.
 larvae, damage, *Heliothis zea*, *Gossypium aboreum*, USA, New Mexico 295.
 larvae, host plants, *Atherigona soccata* 2784.
 larvae, predation, ponds, *Chironomidae*, Canada, Quebec 320.
 learning behavior, social behavior, *Papio ursinus*, *Cercopithecus aethiops* 1382.
 lesions, amygdala, appetite, satiety, hunger, rats 2036.
 lesions, hypothalamus (dorsomedial), diets, nutrition, juveniles, rats 892.
 littoral zone, *Sterna hiemalis* 2721.
 locomotion, energy conservation, birds 372.
 locomotion, visual perception, *Sula bassana* 3055.
 locomotor activity, optimization, *Oreaster reticulatus* 268.
 locomotor activity rhythms, *Sesamia cinereum*, *Sesamia reticulatum* 3769.
 males, *Heliothrips host plants*, *Gabonia gabriela* 2643.
 marine environment, *Falco peregrinus*, *Pandion haliaetus* 2730.
 marine fauna, species composition, food composition, environmental factors, *Aves*, Inish Sea 365.
Marmota menzbieri, USSR 3823.
 mathematical models, *Formicidae* 1431.
 mating behavior, life history, *Sphodros aboti*, *Sphodros rufipes* 2889.
 mating behavior, *Octopus vulgaris*, South Africa Coast 102.
 maxillary palps, movements, *Gryllus bimaculatus* 4151.
 measuring techniques, equipment, mice 4436.
 mechanical stimuli, tails, rats 405.
 migrations, *Balaena mysticetus*, USA, Alaska Coast 3024.
 migrations, diel variations, light intensity, locomotor activity, *Nemobius sylvestris* 636.
 monosodium L-glutamate, neurochemistry, mice 3297.
 motor activity, cortex ablation, environmental effects, rats 2029.
 mouthparts, food intake, body weight, chickens 3341.
 mouthparts, functional morphology, *Cibaniarus longistans* 1408.
 mouthparts, functional morphology, *Gerres* 3699.
 mouthparts, morphology, *Anamixis hanseni* 272.
 mouthparts, *Stomatopoda* 262.
 naltrexone effects on, rats 2110.
 nectar reward effects on, *Apis mellifera* 302.
 nectar secretion effects on, *Brassica campestris*, *Apis* 303.
 nervous system effects on, *Lymnaea stagnalis* 817.
 nest provisioning, parental behavior, *Accipiter nisus* 2576.
 nests, habitat preferences, song, *Chenonotus grayi*, New Guinea 1566.
 neuroendocrine system, conferences 4498.
 new records, *Brachyura ramosa*, *Ostrinia nubilalis* 296.
 night, artificial light, *Archilochus colubris* 2719.
 norepinephrine, palatability effects on, rats 1511.
Notiophilus biguttatus 312.
 nutrients effects on, colonial characteristics, *Solenopsis invicta* 1411.
 obesity, food intake, rats 3752.
 olfactory deprivation, juveniles, rats 4110.
 olfactory perception effect on, rats 408.
 ontogeny, external stimuli effects on, rats 1516.
 ontogeny, external stimuli, imprinting, juveniles, *Alcidae* 1600.
 ontogeny, migrations, juveniles, *Haemulon flavolineatum*, *Haemulon plumieri*, US Virgin Is., St. Croix 3873.
 operant conditioning, controlled conditions, *Lepomis macrochirus* 534.
 operant response, lesions, telencephalon, pigeons 2013.
 opiates, agonists, antagonists, sheep 3753.
 optimization, *Bombus appositus* 309.
 orientation, host plants, gustatory stimuli, *Dendroctonus ponderosae* 3000.
 oviposition, dispersion, abundance, spatial distribution, host plants, orchards, host preferences, food preferences, vectors, vector-borne diseases, *Scaphytopius acutus*, *Prunus persica*, *Trifolium pratense* 294.
 Pan troglodytes, Guinea, Bossou 3658.
 parental behavior, food availability, *Dendroica petechia* 3591.
 parental behavior, siblings competition 2526.
Pelina truncatula, larvae, life cycle, *Cylindrospermum* 1401.

Feeding behavior, (continued)

- periodicity, metabolism effects on, rats 1509
 periodicity, *Oncorhynchus kisutch*, Salmo gairdneri 2669
 photoperiods, diurnal variations, Anser 1465
 physical activity, wading, *Chettusia leucura* 3861
 physical activity, wading, *Chettusia leucura* 3861
 physical activity, winter, *Pseudemys scripta*, USA, South Carolina, Par Pond 3683
 physiology, correlation analysis, methodology, rats 401
Pinus ponderosa extractants effects on, *Ips paracornifus* 1425
 Pisces, coral reefs, trophic levels, Malagasy Rep Coast 338
 plants oils collection, Anthophoridae 311
 pollination, *Apis mellifera*, *Malus domestica* 317
 pollinators, environmental effects, *Andrena engelae* 291
 pollution effects, oil pollution, *Oncorhynchus kisutch* 2673
 pollution effects, oil pollution, *Prothotaba staminea*, Cancer magister, USA, Washington Coast 2621
 polymorphism, bills, *Chondrohierax uncinatus* 2703
 population density, trophic relationships, *Valenciennesia tripunctulatus*, Mexico Gulf 331
 predation, activity patterns, geographical variations, littoral zone, Gastropoda 279
 predation, *Caulolatilus microps*, USA, North Carolina Coast 3696
 predation, diets, *Felis caracal*, South Africa 2738
 predation, echolocation, frequency, *Trachops curthousi* 390
 predation, food preferences, energy expenditure, *Plethodon cinereus* 326
 predation, food selection, *Natica tecta* 275
 predation, food selection, *Perognathus longimembris*, *Gambelia wislizeni*, USA, Nevada, Churchill Co. 3681
 predation, food sources population density effects on, *Phytoseiulus persimilis*, *Amblyseius degenerans* 283
 predation, *Myotis lucifugus* colonies, Oso asio 3717
 predation, pollinators, *Serpentes*, *Chiroptera* 3679
 predation, *Pomatomus saltatrix*, *Cephus grylle*, *Somateria mollissima* 3688
 predation, predators, *Orcinus orca*, *Lobodon carinipodus* 381
 predation, *Promicropis lanceolatus*, juveniles, *Chelonia mydas*, Tonga Islands 1460
 predation, resource partitioning, *Notonecta*, British Isles 1436
 predation, *Serrastroma serrula* 324
 predation, surplus killing, *Rangifer tarandus*, *Camus lupus*, USA, Alaska 3735
 predator-prey interactions, food organisms, *Actinophrys sol*, *Colpidium colpoda* 1460
 predator-prey interactions, food preferences, *Natica maculosa*, *Thais carmelii*, *Anadara granosa* 281
 predator-prey interactions, Insecta, eggs, larvae, *Pseudoplusia includens* 293
 predator-prey interactions, mathematical models, submergence solutions 251
 predator-prey interactions, *Pisaster giganteus*, *Tegula pulgilio*, *Calliostoma ligatum* 2619
 predators, food organisms abundance effects on, zooplankton, *Lepomis macrochirus* 3690
 predators, food organisms, *Pinophus melanoleucus*, *Asio otio* 2662
 predatory behavior, *Balaeniceps rex* 2705
 predatory behavior, zooplankton, *Alosa aestivalis* 3698
 prey, *Chaidira*, *Coralliophila abbreviata*, *Coralliophila caribaea*, Discovery Bay, Jamaica 1403
 prey dinking, *Ardea cinerea* 3729
 prey localization, mechanical stimuli, *Aplocheilus lineatus* 3077
 prey odors, chemoreception, *Homarus americanus* 2609
 prostaglandins effects on, rats 1969
 reflexes 1591
 regulation, *Schistocerca gregaria* 306
 reinforcement schedules, preferences, food intake, deprivation, energy intake, *Junco hyemalis* 1467
 reproductive behavior, maternal behavior, *Vespertilio superans superans* 2486
 reproductive behavior, predator-prey relationships, annual variations, *Polinices alden*, *Tellina tenuis* 282
 resource utilization, sympatric populations, *Leptomys* 1549
 rhythms, diurnal variations, *Pandulus kessleri*, Japan Sea, Peter the Great Bay 4130
Rhytidoponera mactulata, *Aphaenogaster longicorps*, seeds, dispersal, *Lepidoptera laterale*, *Eucalyptus* 323
 role, chemoreceptors, sensilla, *Macrosteles fasciatus* 2642
 role, hypothalamus (lateral), amygdala, monkeys 872
 role, neurons, lateral hypothalamus, cortex (prefrontal), amygdala, cortex (motor), monkeys 2009
 roosting behavior, activity patterns, winter, *Moctacilla alba*, British Isles, Oxford 1366
 roosting behavior, habitat preferences, *Agelaius phoeniceus*, Canada, Ontario 1564
 roots, borers, *Crossidius pulchellus*, *Gutierrezia sarothrae*, *Gutierrezia microcephala*, USA, New Mexico 299
 satiation, *Aplocheilus lineatus*, *Mexocopus cupanus* 2686
 scavenging behavior, *Crotalus ruber* 2664
 seasonal variations, diets, *Clethrionomys gapperi*, Canada, Ontario 2741
 seasonal variations, *Sus scrofa*, USA, Tennessee 485
 seeds, Aves 1477
 seeds, food plants, *Nucifraga columbiana*, *Pinus* 3687
 seeds, *Thraupidae*, *Coccyzus colicor* 2704
 seeds, *Tribulus cistoides*, *Geospiza magnirostris*, *Geospiza fortis* 1483
 sensory stimuli, echolocation, *Antrozous pallidus* 3736
 sex differences, winter, *Cervus elaphus* 2755
 sexual dimorphism, *Accipiter striatus* 2530
 siblings, food intake, cooperation, *Acomys cahirinus* 400
 social behavior, larvae, *Engyalus mordax*, *Trachurus symmetricus* 2833
 social behavior, locomotor activity, *Aotus trivirgatus* 3869
 social behavior, ontogeny, *Cercodyon thos*, *Speothos venaticus* 2917
 social hierarchy, interspecific relationships, agonists, *Meliphaga* 3732
 social interactions, activity patterns, diurnal variations, *Cercopithecus cephus* 498
 social organization, *Caryotrochilus canadensis* poliogaster, Costa Rica 2574
 social organization, sympatric populations, problem solving, *Saimiri sciureus*, *Callicebus moloch* 4018
 social rank, aggressive behavior, rearing, chickens 3343
 soil, nutrient requirements, *Gopherus agassizii* 3682
 spatial distribution, competition, streams, *Salvelinus fontinalis*, Salmo trutta, USA, Michigan 2826
 spawning, chemoreception, pheromones, *Clupea harengus pallasi* 1296
 stimulants, food preferences, *Echinodermata* 277

Feeding behavior, (continued)

- stimuli, food availability, *Cyphoma gibbosum* 259
 stomach content, diets, *Hemulter eigenmanni*, USSR, Khanka L. 1455
 substrate preferences, environmental factors, comparative studies, *Parus carolinensis*, *Sitta carolinensis*, *Parus bicolor*, *Picoides pubescens* 367
 substrate preferences, environmental factors, sex differences, seasonal variations, *Picoides borealis*, USA, South Carolina 366
 substrate preferences, food preferences, yeasts, *Drosophila mojavensis* 2629
 substrate preferences, geographical variations, stereotyped behavior, *Dendroica pinus*, Bahama Is. 368
 sucking behavior, obesity, mice 1502
 suction feeding, predation, Pisces 3697
 suspended matter, Sponidae, USA, Chesapeake Bay 258
 swarming behavior, chemical stimuli, amino acids, *Eurytemora herdmanni*, *Acartia hudsonica* 3774
 swimming behavior, lateral line, *Aplocheilus lineatus* 3687
 swimming behavior, *Proborescacia flavicirrata*, *Stomatocora atra*, *Phialidium gregarium*, *Polyorchis pencilulata* 2626
 swimming, locomotor activity, respiration, controlled conditions, *Brevortia tyrannus* 346
 symbiosis, territorial behavior, Pisces, coral reefs 2350
 tail pinch stress effects on, rats 4478
 taste aversion learning, toxicity testing, phystostigmine, rats 4320
 taste perception, zona incerta lesions effects on, rats 4235
 taste preferences, obesity dogs, cats 1917
 temperature effects, *Stomoxys calcitrans* 447
 temperature preferences, developmental stages, *Crocodylus novaequeina* 458
 territorial behavior, food availability, *Anthochaera carunculata*, Australia 1476
 territorial behavior, juveniles, *Oncorhynchus kisutch*, Canada 1221
 territorial behavior, social interactions, subordination, *Pithys albifrons* 512
 4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3-yl effects on, rats 4355
 thiamin deficiency, food spillage, food intake, rats 3757
 threshold, starvation effects on, Hydra 276
 tides, effects on foraging behavior, *Haemaphysalis ostralegus* 2693
 tool use, food organisms, *Pan troglodytes*, *Pseudocantothermes spiniger* 3760
Turdus pilaris, *Turdus iliacus* 2707
 vertical migrations, *Gennadas*, *Benthoeogennada*, Gulf of Mexico 1404
 γ -vinyl α -aminobutyric acid, effects on food intake, rats 4391
 visual evoked response, visual discrimination, juveniles, Aves 3056
 water intake, food intake regulation, behavioral genetics, *Gallus gallus* 361
 winter, food availability, *Anas penelope*, British Isles, East Anglia, Ouse Washes 1475
 winter, snowmelt, *Lagopus mutus helveticus*, Europe, Alps 1471
 workers, larvae, *Bombus terrestris*, *Bombus terrestris* 308
 workers recruitment, trail pheromone, *Myrmica rugulosa* 2634
 zooplankton, predation, food preferences, body size, *Neomysis mercedis* 1394
- Feeding effects on**
 discrimination learning CS, rats 552
- Feeding mechanisms**
 feeding behavior, *Moctacilla alba* 3726
 surface water particles, neustophagia, *Podocnemine* 2660
- Felis**
 drug effects, activity patterns rhythms, peripheral nervous system depolarization 840
 spatial distribution, activity patterns, predatory behavior 3865
- Felis caracal**
 feeding behavior, predation, diets, food consumption, South Africa 2738
- Felis concolor**
 vocalization behavior 3432
- Females**
 aggressive behavior, maternal behavior, *Mirounga leonina* 2545
 aggressive behavior, pregnancy effects on, mice 65
 aggressive behavior, pregnancy, mice 3449
 aggressive behavior, prolactin effects on, hamsters 2340
 aggressive behavior, sex hormones effects on, mice 2334
 attractancy, age, mating behavior, males, *Tenebrio molitor* 3499
 attractancy, sex pheromone, *Lygocoris communis* 3390
 breeding success, courtship, vocalization, *Eutamias* 2490
 brood care, eggs, *Latidura riparia* 3500
 competition, mating behavior, courtship, *Anabrus simplex* 1288
 courtship, tracking, *Drosophila melanogaster* 134
 dominance, sex hormones, effects on males sexual behavior, aggressive behavior, *Miopithecus talapoin* 3573
 drinking behavior, social hierarchy, *Cercopithecus aethiops* 1232
 emotional behavior, sleep (REM), deprivation, rats 2222
 feeding behavior, diving, energy budget, *Arctocephalus gazella*, Falkland Is. 1496
 fighting, testosterone effects on, mice 2341
 homosexual behavior, sex hormones effects on, *Larus occidentalis* wymani 2471
 hormones, effects on song, *Taeniopygia guttata castaneus* 3415
 housing, effects on males aggression, mice 1198
 mate selection, *Chaulioignathus pennsylvanicus*, competition effects on, interspecific relationships, *Vespidae* 135
 mate selection, courtship, *Colias eurytheme*, *Colias philodice* 123
 mate selection, mating behavior, mathematical models 100
 mating behavior, estrous receptivity, serotonin, progesterone, GABA, olfactory organs ablation, rats 793
 mating behavior, hormones effects on, *Rana pipiens* 150
 morphology, effects on males hormones, *Streptopelia risoria* 1301
 parental behavior, foraging behavior, activity patterns, *Desmognathus ochropneus* 2522
 pigs, social interactions, social rank 96
 reproductive behavior, attractants, *Lucilia cuprina* 10
 resting behavior, activity patterns, breeding status, gravid, virgin, *Glossina morsitans morsitans* 2418
 scent marking behavior, exploratory behavior, chemical stimuli effects on, males androgens, rats 3572
 sexual behavior, androgens effects on, intrauterine exposure, rats 3888
 sexual behavior, carbaryl effects on, rats 2500
 sexual behavior development, hormones aroma effects on, *Mesocricetus auratus* 186
 sexual behavior, estrogens effects on, *Mesocricetus auratus* 3321
 sexual behavior, estrus cycle, sex hormones, donkeys 2508
 sexual behavior, mate selection, evolution, mathematical models 2872
 sexual behavior, orientation, sex pheromone, *Phodia interpercella* 2273
 sexual behavior, testosterone effects on, rats 4412
 sexual behavior, prostaglandins effects on, *Anolis carolinensis* 1034

Females, (continued)

social interactions, effects on males hormones, *Streptopelia risoria* 1365.
social rank, dominance, androgens effects on, *Equus caballus* 97.
suckling behavior, self-suckling, feral populations, *Capra hircus* 1505.
testosterone plasma levels, aggressive behavior, horses 4459.

Fenfluramine,

drug effects, morphine tonic immobility, juveniles, chickens 1980.
effects on feeding behavior, rats 4365.
effects on tonic immobility, chickens 1122.

Fenitrothion,

effects on activity patterns, rats 2099.
effects on motor activity, rats 3247.

Fentanyl,

drug effects, cerebrom serotonin levels, rats 944.

Feral populations,

females, suckling behavior, *Capra hircus* 1505.
infanticide, aggressive behavior, horses 3450.
pigeons, mate selection, color, feathers, age 173.

Fertility,

competition, diapause, males, *Anthonomus grandis grandis* 1269.
reproductive behavior, *Meriones unguiculatus* 1330.
reproductive behavior, rabbits 1321.

Fertilization,

aggregation, breeding, *Balanus glandula* 82.

Fetuses,

sex differences, effects on aggression, *Macaca nemestrina* 1213.

Ficedula hypoleuca,

mating behavior, polygyny, parental behavior 3548.

Ficedula hypoleuca,

home range, breeding 2843.
sexual behavior, polygamy, monogamy, sex differences 1297.

Ficedula zanthopygia,

nesting behavior, reproductive behavior, parental behavior 2458.

Fighting,

aggressive behavior, *Equus burchelli*, *Equus hemionus* 3454.
aggressive behavior, mice 3452.
agonistic behavior, *Pseudechis porphyriacus* 60.
agonistic behavior, social hierarchy, *Canis latrans* 1205.
avoidance learning, operant conditioning, passive avoidance, *Bufo* spp., *Ranidae* 1718.
castration, testosterone effects on, males, mice 1207.
defensive behavior, effects on cardiovascular system physiology, cats 75.
drugs, shock, benzodiazepine, mice 77.
effects on testosterone plasma levels, mice 2185.
inducers, drugs, desmethylinpramine, antidepressants, rats 993.
intraspecific relationships, *Salicaria scirpus* 55.
play, social behavior, *Gymnorhinus tibicen* 4471.
testosterone effects on, females, mice 2341.

Filaments,

growth, food preferences, *Oxyne azuropunctata*, *Elysia cauze* 1391.

Flms,

locomotion analysis, *Arthropoda* 1085.

Filter feeders,

feeding behavior, cycles, *Cobitis taenia* 2680.
feeding behavior, food consumption, *Petrolisthes eriomerus* 3664.
feeding behavior, insects 289.
feeding behavior, 30 species, *Octocorallia* 3667.

Fimbria,

form, lesions, effects on discrimination learning, rats 595.

Fish,

auditory communication 34.

Fish larvae,

feeding behavior, food composition, food selection, *Scombridae* 340.

Fitness,

adaptiveness, slavery, *Formicidae* 506.
breeding success, reproductive strategy, parental behavior, mice 2543.
genetic factors, jumping, activity patterns, *Mus musculus* 1589.
inbreeding, reproductive behavior, population genetics, *Parus major* 170.
males, infanticide, *Mus musculus* 1214.
mating behavior, breeding success, *Drosophila* 2409.

Fitness dominance,

breeding success,

Fixed interval schedule,

avoidance behavior, feedback stimuli, rats 584.
chain schedule, choice, rats 3947.
conditioned response, drug effects, phenothiazines, pigeons 2076.
CS, operant response 1639.
drug effects, clozapine, stimulus-shock termination, *Saimiri* 2172.
drug effects, operant response, pigeons 935.
drug effects, pimozone, rats 1929.
drug self-administration, cocaine, body weight, rats 2121.
electrical stimulation, fixed time schedule, operant response, chain schedule, monkeys 1714.
fixed ratio schedule, operant response, stereotyped behavior, pigeons 3914.
multiple schedule, water, pecking behavior, social bonds, juveniles, ducks 1672.
operant conditioning, performance, rats 3931.
reinforcement, punishment, electrical stimulation, self-stimulation, monkeys 1711.
reinforcement schedules, operant response, food, water, rats 1699.
response rate, statistical analysis 1637.
shock, operant response, escape behavior, rats 1740.
Fixed interval schedules,
reinforcement, behavior modeling, measurements, pigeons 536.
Fixed ratio schedule,
acquisition, drug effects, antagonism, pigeons 3280.
depression, emotional behavior, models, *Saimiri* 543.
drug effects, operant response, pigeons 935.
feeding behavior, electrophysiological recording, monkeys 2009.
fixed interval schedule, operant response, stereotyped behavior, pigeons 3914.
multiple schedule, water, pecking behavior, social bonds, juveniles, ducks 1672.
operant response, phenytoin effects on, pigeons 4383.
reinforcement, punishment, electrical stimulation, self-stimulation, monkeys 1711.
reinforcement schedules, operant response, food, water, rats 1699.
reinforcement schedules, pigeons 3910.
reinforcement schedules, timeout, pigeons 1658.

Fixed time schedule,

adjunctive behavior, schedule-induced behavior, polydipsia, rats 1676.
CS, operant response 1639.
fixed interval schedule, electrical stimulation, operant response, chain schedule, monkeys 1714.

Flagella,

locomotor activity, association, chemotaxis, role gene che, *Escherichia coli* 3843.

Flashing,

electrical stimulation, control neurons, *Photuris versicolor* 22.
patterns, central nervous system organization effects on 825.

Flavobacterium,

chemotaxis, attractants, *Skeletonema costatum* 2997.

Flavor toxicosis,

taste aversion learning, rats 3981.

Flight,

aerodynamic properties, *Calliphora erythrocephala* 686.
chemotaxis, sex pheromone, visual stimuli, *Grapholita molesta*, *Heliothis virescens* 3005.
control, antennae, locomotor activity, aerodynamic properties, *Aglaia urticae* 3035.
control, antennae, locomotor activity, aerodynamic properties, *Aglaia urticae* 3036.
dispersal, ovary development, environmental factors, *Hippodamia convergens* 3793.
diurnal variations, light, mobility, *Helicoverpa armigera* 3097.
drinking behavior, *Tabanidae* 2641.
echolocation, sound production (biological), *Desmodus rotundus* 1859.
electrical stimulation, ganglia, optomotor response, *Calliphora erythrocephala* 914.
energetics, *Trichilidae*, *meliphaeidae* 1486.
food consumption, *Asio flammeus* 3728.
lesions, septum, cats 2018.
males, sex pheromone components effects on, *Spodoptera litura* 25.
measuring techniques, dispersion, *Tetranychus tetranychus* 1862.
migrations, capture-recapture studies, *Syrphidae*, Switzerland 4039.
orientation, magnetic fields, *Noctua pronuba* 4036.
orientation, visual stimuli, *Drosophila hydei* 3052.
speed, migrations, *Branta canadensis* interior, *Anser canadensis caeruleus*, *Anas platyrhynchos* 3017.
visual perception, visual stimuli, *Musca domestica* 709.
vocalization behavior, food sources, male, *Nectarinia venusta* 3413.

Flight activity,

circadian rhythms, lithium chloride, *Tapozous melanopogon* 4367.
colonies, nesting behavior, *Vespula consobrina* 3610.
copulation, sexual behavior, *Eudictoria tibialis*, USA, Maryland 1265.
defective mutant, wings, feathers, chickens 3043.
diel activity, seasonal variations, *Culicoides variipennis*, *Culicoides crepuscularis*, *Culicoides hirsutipectus*, *Culicoides palmerae*, USA, Colorado 680.
diets, *Simulium ornatum* 3039.
diurnal variations, feeding behavior, *Helicoverpa armigera* 4131.
diurnal variations, *Tortricidae* 684.
echolocation, juveniles, *Chiroptera* 1855.
emergence, *Thanasimus dubius* 3787.
energetics, thermoregulation, *Malacosoma americanum* 689.
environmental effects, relative humidity, photoperiods, *Locusta migratoria migratoides* 1547.
environmental effects, weather, *Buteo jamaicensis* 1872.
environmental effects, weather, seasonal variations, *Dendroctonus frontalis* 455.
environmental factors, wind, food, temperature, *Schistocerca gregaria* 1861.
feeding behavior, diurnal variations, light intensity, *Tortricidae*, Brazil 2734.
food availability effects on, *Spodoptera eximia* 435.
host searching behavior, *Myzus persicae* 1837.
life history, *Masaria*, South Africa 444.
males, sex pheromone components effects on, *Trichoplusia ni* 863.
mating behavior, sex pheromone, *Hyphantria cunea* 1284.
mechanical properties, *Hippodamia spears* 1874.
migrations, altitude, *Aves* 658.
migrations, *Aves*, Caspian Sea 4053.
migrations, radar, *Persectania ewingii*, *Heliothis punctiger*, *Agrotis munda*, Australia, Bass Strait 1835.
night, aggregation behavior, convergence zones, atmospheric conditions, *Insecta* 3778.
night, surveys, *Lepidoptera*, USA, Colorado 1869.
olfactory stimuli, orientation, chemoreception, atmospheric conditions, *Insecta* 2797.
ontogeny, juveniles, chickens 1873.
optomotor response, visual stimuli, compound eyes, *Apis mellifera* 3034.
orientation, *Acridae* 679.
orientation, littoral zone, inheritance, *Talitridae* 2995.
orientation, ocelli effects on, *Acridae* 633.
orientation, visual perception, *Musca domestica* 641.
periodicity, seasonal variations, *Odontata* 2786.
sensory stimuli, *Hypera postica* 4067.
settling behavior, host plants, *Rhopalosiphum padi* 1845.
sex differences, *Triatoma infestans* 1846.
sex pheromone effects on, *Bradyia impatiens* 113.
sex pheromone effects on, *Trichoplusia ni* 14.
sex pheromone, males, *Choristoneura fumiferana* 1266.
sex pheromone response, males, *Pseudaletia unipuncta* 13.
sexual reproduction, *Nectopsyche albida*, USA, Indiana 1282.
slope soaring behavior, aerodynamic properties, energy expenditure, *Pantala flavescens* 3033.
swarming behavior, *Ophrya leucostoma* 3609.
temperature effects, body size, *Anisoptera* 1870.
temperature effects, *Lepidoptera* 1866.
traps, *Tortricidae* 1084.
U.V. radiation effects on, *Antheraea pernyi* 3040.
velocity, *Locusta migratoria migratoides* 4068.
velocity, wing beat frequency, *Locusta migratoria* 1868.
vertical distribution, horizontal distribution, streams, *Eptesicus fuscus*, *Myotis lucifugus* 4071.

Flocking behavior,

foraging behavior, food availability, *Aves* 1470.
foraging behavior, grasslands, *Corvus frugilegus* 2688.
foraging behavior, predators avoidance behavior, *Passer domesticus* 2837.

Flocking behavior, (continued)

- leadership, Columbia 3621
 reproductive behavior, mortality, *Branta canadensis* 2839
 social organization, *Caryodraustes canadensis* polioleaster, Costa Rica 2574
 song variation, conspecific recognition, *Parus atricapillus* 1171
 stimuli, food sources, *Ardeidae* 356

Flooding,

- avoidance learning, fear, extinction, rats 1634
 avoidance learning, rats 3971

Floods,

- effects on feeding behavior efficiency, *Cinclus cinclus* 347.

Florida caerulea,

- flocking behavior, food sources 356

Flowers,

- chemical stimuli, anemotaxis, *Hadena bicurris*, *Deilephila elenor* 3008
 foraging behavior, chemical communication, scent marking behavior, *Bombus vosnesenski* 1133
 foraging behavior, continuous reinforcement, *Bombus edwardsi* 1644.
 foraging behavior, prairies, Hymenoptera, USA, Wyoming 1441
 nectar, effects on foraging behavior, *Bombus sandersoni*, *Vespula vulgaris* 1414
 saccharides, food composition, food preferences, specialization, *Apis mellifera* 1417.

Fluid intake,

- licking behavior, measuring techniques, rats 4433
 lordosis behavior, nutrient deficiency, rats 3566
 sucking behavior, ontogeny, neonates, rats 3602

6-Fluorotryptophan,

- effects on sleep and wakefulness, rats 3269

Fluoxetine,

- drug effects, neurotransmitters, uptake, tonic immobility, chickens 936

Fluoxymesterone,

- effects on sexual behavior ontogeny, hamsters 2182

Fluphenazine,

- metabolites, drug effects, open-field behavior, hyperactivity, rats, mice 961.

Fluphenazine decanoate,

- amphetamine, effects on locomotor activity, rats 4340.
 effects on activity patterns, locomotion, mice 4289
 side effects, chewing, displacement activity, rats 968

Fluphenazine-sulfoxide,

- metabolites, drug effects, open-field behavior, hyperactivity, rats, mice 961

Flurazepam,

- motor activity control, cerebellum, mice 4173.

Foaming,

- defense mechanisms, *Pachycondyla* 58

Folic acid,

- thiamine, nutrient deficiency, avoidance learning, pharmacology, rats 573

Formica candida,

- food organisms, predatory behavior, *Serratrum serrula* 3668

Formica lugubris,

- colomes, aggressive behavior, interspecific relationships, intraspecific relationships, *Formica culicularia* 2317

Food,

- alcohol, feeding behavior, rats 3928
 attractancy, feeding behavior, mathematical models, *Misgurnus anguillicaudatus* 2683
 attractants, attractancy, sex differences, comparative studies, *Hylemyia* 11
 deprivation, chronic exposure, lead, effects on, locomotor activity, rats 1598
 deprivation, drugs, apomorphine, inducers, stereotypic behavior, rats 992
 deprivation, effects on homing behavior, rats 1626
 deprivation, intracranial self-stimulation, rats 2052
 deprivation, reinforcement schedules, orientation, temporal discrimination, pigeons 1667
 deprivation, taste preferences, rats 3925
 environmental factors, flight activity, wind, temperature, *Schistocerca gregaria* 1861
 feeding behavior, food composition, food consumption, *Ebala tuberosa* 285
 reinforcement, drug effects, pizomide, rats 1929
 reinforcement, operant conditioning, early experience effects on, malnutrition, rats 3885
 reinforcement schedules, operant response, rats 1699
 reinforcement schedules, patterns, cognitive ability, extrapolation, rats 1677
 reinforcement schedules, response, memory, pigeons 1660.
 reinforcement schedules, variable interval schedule, response, behavioral contrast, pigeons 1661.
 stimuli, effects on operant conditioning, *Carassius auratus* 533
 stimuli, operant response maintenance, drugs effects on, rats 1018
 visual stimuli, aversion learning, toxicosis, rats 1751.

Food availability,

- activity patterns, social organization, *Canis latrans* 2736
 competition, effects on breeding success, *Parus caeruleus*, *Parus major* 1307
 competition, feeding behavior, guilds, Aves, USA, Arizona 363.
 competition, social behavior, dominance, *Icterus nebulosus* 2373.
 competition, territorial behavior, *Avahi laniger* 92.
 deprivation, effects on acoustic startle response, rats 4118.
 deprivation, effects on predatory behavior, *Onychomys torridus* 3743
 deprivation, feeding behavior, body weight, rats 3742.
 diets, habitat, *Panurus barmicus* 2698.
 diets, *Mustela* lutra, *Lutra lutra* 2750.
 diets, reproductive behavior, *Asio otus*, British Isles, Scotland 1468.
 diets, seasonal variations, habitat preferences, *Meles meles*, Italy 1494.
 effects on diets, feeding behavior, *Sorex minutus*, *Sorex araneus*, British Isles 1519.
 effects on flight activity, *Spodoptera exempta* 435.
 effects on maternal behavior, males offspring survival, *Neotoma floridana* 486.
 effects on migrations timing, *Fringilla montifringilla* 3012.
 effects on spatial distribution, population studies, *Tamias striatus* 2366.
 energetics, social facilitation, aggregation behavior, *Ochrotomys nuttalli* 3820.
 feeding behavior, circadian rhythms, rats 4140.
 feeding behavior, coastal environment, *Anonyx capensis* 2749.
 feeding behavior, *Cypopoma gibbosum* 259.
 feeding behavior, diets, *Ditrema viridis*, *Ditrema temminckii*, *Neoditrema ransonneti* 1451.
 feeding behavior, diets, *Meles meles*, British Isles, Scotland 1497.
 feeding behavior, driving, *Uca vocans vocans*, *Uca lactea perplexa* 2623.
 feeding behavior, *Glyptodonta pectinoptera* 2675.
 feeding behavior, grazing, physiology, environmental conditions, *Connachaetes*

Food availability, (continued)

- lunatus* 2739
 feeding behavior, interspecific relationships, *Lutra lutra*, *Mustela vison*, British Isles 380
 feeding behavior, parental behavior, *Dendroica petechia* 3591
 feeding behavior, *Phytoseiulus persimilis*, *Amblyseius degenerans* 1399.
 feeding behavior, roosting behavior, *Agelaius phoeniceus*, Canada, Ontario 1564.
 feeding behavior, seasonal variations, *Milvus milvus*, British Isles, Wales 357.
 feeding behavior, territorial behavior, *Anthochaera carunculata*, Australia 1476.
 feeding behavior, winter, *Anas penelope*, British Isles, East Anglia, Ouse Washes 1475.
 food preferences, feeding behavior, *Engraulis ringens*, *Clupea bentinckii*, Chile Coast 344
 food preferences, feeding behavior, winter, *Canis lupus pambasileus* 404.
 food preferences, *Scaptescus aculeus*, *Scaptescus vicinus* 1426.
 food selection, foraging behavior, predators, *Anolis aeneus* 1450.
 forage, effects on social behavior, *Macaca radiata* 2590.
 foraging behavior, activity patterns, *Anas* 3704
 foraging behavior, aggregation behavior, *Nasalis larvatus* 3761.
 foraging behavior, *Anas platyrhynchos* 3711.
 foraging behavior, flocking behavior, Aves 1470.
 foraging behavior, locomotor activity, *Copepoda* 2620.
 foraging behavior, *Saxicola rubetra* 1469.
 ingestion, feeding behavior, optimization, models 253.
 migrations, *Charadrii* 4051.
 nutritional status, feeding, offspring, secondary nestlings, males, parental behavior, *Dolichonyx oryzivorus* 1346
 phenology, diets, feeding behavior, *Colobus badius rufofimbriatus* 2765.
 population density, territorial behavior, *Aegleopsis aperta* 1218.
 population structure, limiting factors, *Ehdydra lutris*, USA, California 2364.
 resource partitioning, social organization, *Mus musculus* 3625
 response, reinforcement schedules, pigeons 1665
 schedule-induced behavior, polydipsia, alcohol, rats 3930.
 survival, social hierarchy, juveniles, siblings, *Haematopus ostralegus* 2375.
 territorial behavior, breeding sites, *Haematopus ostralegus*, Netherlands, Vlieland I 161
 territorial behavior, competition, *Phylloscopus trochiloides*, India 87.
 territorial behavior, juveniles, *Onychomys kisutch*, Canada 1221.
 territorial behavior, *Megasceryle alcyon* 3471.
 territorial behavior, parental behavior, *Oenanthe oenanthe*, British Isles, Wales 1347.
 territorial behavior, population density, *Cercopithecus aethiops tantalus*, Cameroon 91

Food aversion,

- classical conditioning, rats 581
 predatory behavior suppression, food organisms movements, *Onchomys leucogaster* 1764

Food composition,

- effects on food preferences, monoterpene, *Sciurus aberti* 1508.
 feeding behavior, diurnal variations, environmental factors, larvae, *Gempylus serpens* 342.
 feeding behavior, diurnal variations, Teleostei, Madagascar 1473
 feeding behavior, dominance, range, comparative studies, *Meliphagidae*, New Zealand 403
 feeding behavior, food consumption, *Ebala tuberosa* 285.
 feeding behavior, marine fauna, species composition, environmental factors, Aves, Irish Sea 365
 feeding behavior, predators, sex differences, habitat preferences, *Trionyx muticus* 327.
 feeding behavior, seasonal variations, introduced species, *sus scrofa*, USA, Tennessee, Great Smoky Mts. 1490
 feeding behavior, winter, *Capreolus capreolus* 2760.
 food selection, feeding behavior, fish larvae, *Scorpaenidae* 340
 saccharides, food preferences, specialization, *Apis mellifera* 1417.
 short-term variations, effects on motor activity, rats 1500

Food consumption,

- γ -aminobutyric acid analogs effects on, rats 3153
 amygdala lesions effects on, rats 3190
 brain centers inhibition, *Labridia riparia* 290
 circadian rhythms, photoperiods effects on, rats 1513
 clonidine effects on, rats 3293
 crowding effects on, cages, *Colinus virginianus* 1482
 drug effects, role, *substantia nigra* neurons, rats 1988
 energy intake, predators, foraging behavior, *Macrodon quinquemaculatus* 3670.
 feeding behavior, filter feeders, *Petrolisthes eromerus* 3664
 feeding behavior, food composition, feeding, *Ebala tuberosa* 285
 flight, *Asio flammeus* 3728
 food organisms, predatory behavior, *Eumeces laticeps* 3686.
 hypothalamus (medial) lesions, atropine effects on, rats 2042.
 metabolic rate, circannual rhythms, *Marmota flaviventris* 388.
 naloxone effects on, rats, rabbits, rats 3265
 noise effects on, rats, rabbits 1924.
 predation, diets, *Felis caracal*, South Africa 2738.
 predators, foraging behavior ecology, deserts, *Lacertilia* 1559
 predatory behavior, *Helix aspersa*, *Portholebo antipodiana* 3666
 predatory behavior, population density, predators, *Phytoseiulus persimilis*, *Amblyseius degenerans* 2607.
 roots, larvae, *Heteronchus arator*, *Paspalum dilatatum*, *Lolium perenne*, *Trifolium repens* 298
 saccharin, quinine effects on, *Onychomys leucogaster* 1501.
 social environment effects on, *Acheta domestica* 3672.
 variation, juveniles, adults, *Pollipices polymerus* 3658.
 workers, colonial characteristics, *Solenopsis invicta* 1411.

Food deprivation,

- effects on classical conditioning, mice 550.

- effects on intracranial self-stimulation, hypothalamus, rats 4257.

Food dyes,

- sulfanilic acid, effects on activity patterns, central nervous system development, rats 4311.

Food hoarding,

- cadaverine effects on, rats 1507.

Food intake,

- alcohol effects on, intrauterine exposure, rats 3257.
 alloxan effects on, ventricle (fourth), rats 4196.
 appetitive conditioning, hypothalamus electrical stimulation, reinforcement

Food intake, (continued)

- dissociation, rats 918.
body weight, lesions, hypothalamus (dorsomedial), effects on, rats 891.
bombesin effects on, intracranial chemical stimulation, hypothalamus, rats 4174.
castration, photoperiod effects on, hamsters 3747.
circadian rhythms, sucrose effects on, rats 3750.
cooperation, siblings, feeding behavior, *Acomys cahirinus* 400.
corticobiterin effects on, rats 4408.
deprivation, energy intake, reinforcement schedules, preferences, feeding behavior, *Junco hyemalis* 1467.
diets, nutrition, lesions, hypothalamus (dorsomedial), juveniles, rats 892.
drug effects, naloxone, chemoreceptors, rats 946.
drug effects, 5-hydroxytryptamine, rats 2141.
drugs, spermine, rats 3296.
early experience effects on, nutrient deficiency, iron, rats 519.
effects on activity patterns, obesity, genetic control, rats 4488.
effects on satiety, regulation, rats 395.
endorphins, opiates effects on, rats 955.
feeding behavior, dopamine, dynorphin-(1-13) effects on, rats 4377.
feeding behavior, elzapam, effects on, dogs 2152.
feeding behavior, environmental factors, climate, sheep 387.
feeding behavior, inhibition, cholecystokinin, peptides, sheep 394.
feeding behavior, laboratory animals, water intake, *Macaca fuscata* 415.
feeding behavior, lesions, hypothalamus, estrogens, body weight, rats 900.
feeding behavior, mouthparts, body weight, chickens 3341.
feeding behavior, obesity, rats 3752.
feeding behavior, obesity, satiety, hormones, mice 385.
feeding behavior, *Quelea quelea* 3701.
feeding behavior, role, hypothalamus, rats 1999.
feeding behavior, short-term regulation, feeding duration, *Lichmera indistincta* 377.
feeding behavior, sucrose effects on, rats 3746.
feeding behavior, temperature effects, humidity, heat, chickens, egg laying 1597.
feeding behavior, thiamin deficiency, food supply, rats 3757.
feeding, drinking behavior, water intake, dogs 1514.
feeding frequency, growth, *Pleuronectes platessa* 3694.
food preferences, nutrients, regulation, effects on 1488.
food preferences, radioactive labelling, early experience, sheep 1512.
foraging behavior, colonial characteristics, *Camponotus vagus* 1412.
glucose, intracranial chemical stimulation effects on, rats 3116.
gonadotropin effects on, rats 2087.
hormones effects on 932.
6-hydroxydopamine lesions, caudate putamen, rats 3195.
hypothalamus lesions effects on, rats 4242.
inhibition, feeding behavior, 5-hydroxytryptamine, hypothalamus, rats 1966.
intracranial chemical stimulation, cholecystokinin peptides effects on satiety, sheep 2066.
lordosis behavior, nutrient deficiency, rats 3566.
morphine, norepinephrine, naloxone, rats 1001.
naloxone effects on, insulin, novelty, rats 4394.
naloxone effects on, neurophysiology, rats 1011.
naloxone effects on, rats 2110.
naloxone sensitivity, diabetes effects on, mice 4164.
naloxone effects on, rats 4329.
neuroendocrine system, conferences 4498.
operant conditioning, intracranial chemical stimulation, cholecystokinin octapeptide, pigs 927.
physical activity, sex differences, rats 3758.
prostaglandins effects on, rats 1969.
regulation, calories dilution, feeding behavior, *Macaca mulatta* 416.
regulation, cholecystokinin, bombesin, body weight, rats 3741.
regulation, feeding behavior, water intake, *Gallus gallus* 361.
regulation, hypothalamus 4180.
regulation, hypothalamus, obesity, rats 4189.
regulation, insulin 3653.
reinforcement, naloxone, naloxone effects on, rats 4375.
satiety, role, small intestine, *Macaca mulatta* 1970.
sleep (REM) deprivation, photoperiod, rats 769.
somatostatin effects on, rats, *Papio* 1033.
suppression, drug effects, amphetamines, *Rattus rattus* 2086.
suppression, drug effects, *Rattus rattus*, 2082.
taste aversion, drug effects, bombesin, sodium chloride, lithium chloride, rats 977.
taste perception, hypothalamus (ventromedial) lesions effects on, rats 4221.
taste perception, palatability, area postrema lesions effects on, rats 893.
temperature effects on, early experience, rats 3749.
testosterone effects on, rats 4415.
triethylthyl effects on, brain neurochemistry, rats 4315.
trigeminal nerve ablation effects on, rats 4159.
triglycerides infusion, satiety, taste aversion, conditioned response, rats 3759.
γ-vinyl α-aminobutyric acid, effects on feeding behavior, rats 4391.
wheel running effects on, rats 4489.

Food organisms,

- abundance, diets, reproductive behavior, *Asio otus*, British Isles, Scotland 1468.
abundance, effects on predators feeding behavior, zooplankton, *Lepomis macrochirus* 3690.
abundance, feeding behavior, *Haematomus ostralegus*, *Mytilus edulis* 3716.
anti-predator behavior, *Collobela*, *Acarina* 312.
attractants, effects on reproductive behavior, *Sitotroga cerealella* 121.
biomass, food preferences, feeding behavior, age effects, *Tyto alba* 374.
biomass, food preferences, *Mus mus* 273.
body size, food preferences, larvae, *Clupea harengus* 3700.
chemical stimuli, feeding behavior, *Chrysophrys major*, *Perinereis brevicirrus* 5869.
chemical stimuli, feeding behavior, *Uca pugnator* 267.
colonies, predation, *Megapona foetens*, colonies 1393.
defensive behavior, effects on predators, attack, *Onychomys torridus* 3744.
detection, chemoreception, *Proteus anguinus*, *Necturus maculosus* 4107.
diets, Cancer Irronatus, Canada, Nova Scotia Coast 2605.
diets, *Coralliphila abbreviata*, *Coralliphila caribaea*, *Cnidaria* 2624.
diets, feeding behavior, *Anthus spinoletta* 3707.
diets, feeding behavior, Meles meles, British Isles, Scotland 1497.
diets, *Furina*, *Glyphodon* 1443.
escape behavior, webs, *Lepidoptera*, *Araneida* 440.
feeding behavior, algae, *Calanoida* 2615.
feeding behavior, *Asio flammeus*, *Gastropoda* 2723

Food organisms, (continued)

- feeding behavior, *Bufo americanus* hemiphris, *Agelais phoenixae* 2663.
feeding behavior, burnt ground, heaths, *Hepialus juveniles*, *Pyrrhocorax pyrrhocorax* 2713.
feeding behavior, diel variations, *Siphonophora*, Sargasso Sea, USA, Washington Coast 278.
feeding behavior, energetics, *Calinectes sapidus*, *Geukensia demissa* 2618.
feeding behavior, *Haliastur leucocephalus*, *Tesudines* 3702.
feeding behavior, juveniles, *Copepoda*, *Oncorhynchus gorbuscha* 339.
feeding behavior, juveniles, *Saimo gardineri* 3693.
feeding behavior, *Larus canis*, *Oreophera brumata*, British Isles, Mainland 348.
feeding behavior, *Lepomis macrochirus*, *Daphnia pulex* 2668.
feeding behavior, *Muscicapa striata*, *Inachis* io 2710.
feeding behavior, *Nyctanassa violacea*, *Crustacea* 3727.
feeding behavior, *Sceliphron madraspatanum* conspicillatum, *Arachnida* 1438.
feeding behavior, food use, Pan troglodytes, *Pseudocanthotermes spingeri* 3760.
food availability diets, *Mustela vison*, *Lutra lutra* 2750.
food consumption, predatory behavior, *Eumeces laticeps* 3686.
food preferences, bacteria, *Harpacticoida* 3660.
food preferences, feeding behavior, *Poecilia reticulata* 335.
food preferences, feeding behavior, winter, *Canis lupus pambasileus* 404.
food preferences, *Hyla cinerea* 3680.
food preferences, *Toxothrypanes theobaldi*, *Aedes aegypti*, *Culex fatigans* 307.
foraging behavior, light effects on, *Abrams brama* 3692.
ingestion, foraging behavior, predators, *Micropterus salmoides*, *Lepomis cyanellus*, *Lepomis macrochirus* 3691.
localization, predatory behavior, chemotaxis, *Crotalus viridis*, *Mus musculus* 1445.
mice, factors affecting, predatory behavior, chemoreception, *Crotalus viridis* 733.
morphology, predator-prey interactions, feeding behavior, *Actinophrys sol*, *Colidipodium* 1400.
movements, effects on predatory behavior, taste aversion learning, *Onchomys leucogaster* 1764.
nest provisioning, overwintering, *Gryllus veletis*, *Liris argentata* 1552.
neurons responsiveness, *Bufo bufo* 1978.
novelty, feeding behavior, *Mimus polyglottos* 2720.
palatability, anti-predator behavior, *Blarina brevicauda*, *Hyla versicolor* 2821.
physical properties, effects on feeding behavior, *Lymantria monacha* 305.
predation, diets, *Accipiter gentilis*, Sweden 3700.
predation efficiency, *Macroleon quinquemaculatus*, *Pheidole* 1435.
predation, *Orthetrum austeni*, *Lepidoptera* 2631.
predation, *Promicrops lanceolatus*, *Chelonia mydas* 2682.
predation, vegetation patterns effects on, *Cyprinodontidae*, *Decapoda* 418.
predators feeding behavior, *Pitophs melanoleucus*, *Asio otus* 2662.
predatory behavior, *Folsomia candida*, *Serratula seria* 3668.
predatory behavior, *Neotamias vitipes* 3858.
predatory behavior, *Pica pica*, *Passer domesticus* 2722.
prey handling, energetics, *Insecta*, *Attila spadiceus*, *Monasa morphoeus* 3712.
seasonal variations, *Sus scrofa*, USA, Tennessee 485.
selection, predatory behavior, *Accipiter nisus*, *Parus* 2716.
size distribution, feeding behavior, *Pygoscelis*, *Antarctica*, King George I. 355.
size, effects on social organization, *Canis latrans* 237.
survival, body size effects on, predation, *Olios*, *Eleutherodactylus coqui* 287.
taste aversion learning, lithium chloride, *Bufo americanus* 2947.
zooplankton, feeding behavior, *Engraulis mordax* 2677.
zooplankton, predation, *Neomysis mercedis*, USA, Washington, Washington L. 266.
- Food plants,**
chemical stimuli, taste perception, food preferences, *Sciurus aberti*, *Pinus ponderosa* 392.
feeding behavior, *Coreidea*, 11 species, Costa Rica, Guanacaste Province 1433.
seeds, feeding behavior, *Nucifraga columbiana*, *Pinus* 369.
- Food preferences,**
benzodiazepine effects on, γ-aminobutyric acid role, rats 3292.
body size, food organisms, zooplankton, larvae, *Clupea harengus* 3700.
body size, predation, feeding behavior, *Neomysis mercedis* 1394.
burrowing behavior, sexual reproduction, seasonal variations, environmental factors, *Thomomys botae* 489.
Chaoborus invittatus, larvae, prey size, *Daphnia pulex* 1419.
developmental stages, water depth, juveniles, *Deflelostesus quadrimaculatus* 1453.
diets, *Anisodons nobilis* 2622.
diets, *Claudium perlatum*, South Africa, Elosha National Park 3713.
diets, *Collocalia esculenta* 2708.
diets, feeding behavior, *Ebalia tuberosa* 288.
diets, feeding behavior, estrus cycle, ovary ablation, rats 397.
diets, nutrient requirements, chickens, laying hens 1466.
diets, *Passer domesticus*, *Carduelis chloris*, New Zealand, Hawkes Bay 362.
diets, seasonal variations, *Peromyscus maniculatus* 2748.
diets, *Spermophilus townsendii* 2751.
digestive tract, functional morphology, *Atelles geoffroyi*, *Alouatta palliata* 417.
energy requirements, feeding behavior, *Capreolus capreolus*, Greece 1489.
environmental effects, feeding behavior, grazing, *Ovis aries* 2220.
ethanol, dextrose, hamsters 1504.
fats, morphine effects on, rats 4386.
feeding behavior, adults, *Rhinomys viridianeus*, Canada, British Columbia, Vancouver I. 1427.
feeding behavior, Aves, *Anolis*, Grenada 351.
feeding behavior, bacteria, *Harpacticoida* 3660.
feeding behavior, diets, *Coleodactylus amancanicus* 2661.
feeding behavior, diurnal variations, *Lisodolphis peroni*, Chile Coast 393.
feeding behavior, *Echinomera lucunter*, *Lytechinus variegatus*, *Eucidaris tribuloides* 2616.
feeding behavior, experience effects on, *Odocoileus hemionus* 3737.
feeding behavior, food organisms biomass, age effects, *Tyto alba* 374.
feeding behavior, food plants, water content, *Acta columbica* 1423.
feeding behavior, fruits, *Eriotheca rubecula*, Spain 349.
feeding behavior, growth, *Poecilia reticulata* 335.
feeding behavior, *Haematomus ostralegus*, *Mytilus edulis* 3716.
feeding behavior, *Hyla cinerea* 3680.
feeding behavior, interspecific relationships, *Lutra lutra*, *Mustela vison*, British Isles 380.
feeding behavior, juveniles, *Aepyconus melampus* 409.
feeding behavior, juveniles, *Oncorhynchus gorbuscha*, *Oncorhynchus keta*, Alaska Coast 1457.
feeding behavior, leaf litter, freshwater environments, *Potamopyrgus jenkinsi* 1396.

Food preferences, (continued)

- feeding behavior, *Lynx pardina*, Spain 379
 feeding behavior, *Mustela vison*, Lutra lutra 2750
 feeding behavior, *Oreaster reticulatus*, US Virgin Is., St. Croix Coast 3657
 feeding behavior, *Ovis canadensis*, USA, Montana 3820
 feeding behavior, predation, energy expenditure, *Phlebotomus cinereus* 326
 feeding behavior, *rangelands*, *Lepus californicus* 2758
 feeding behavior, *Rhinopoma microphyllum* kinneari, India, Rajasthan Desert 2740
 feeding behavior, *Sceliphron madraspatanum* conspiciendum, Arachnida 1438
 feeding behavior, seasonal variations, *Callorhinus ursinus* 2757
 feeding behavior, seasonal variations, *Mylus milvus*, British Isles, Wales 357
 feeding behavior, seasonal variations, *Tyto alba*, British Isles, Wales 350
 feeding behavior, *Stercorarius skua* 359
 feeding behavior, stimulants, *Echinodermata* 277
 feeding behavior, sympatric populations, *Pygoscelis*, Antarctica, King George I. 355
 feeding behavior, *Toxorynchites theobaldi* 307
 feeding behavior, winter, Cervidae, Poland 3739
 food availability, feeding behavior, *Engraulis nungens*, Clupea benthicki, Chile Coast 344
 food availability, *Scaptomyza aeneus*, *Scaptomyza vicinus* 1426
 food intake, radioactive labelling, early experience, sheep 1512
 food intake regulation, nutrients effects on, rats 1488
 food sources, *Odocoileus hemionus* 412
 grazing, diets, nutrition, cattle 1499
 growth, filaments, *Oxyne azuripunctata*, *Elyna cauze* 1391
 gustatory stimuli, urea, sugars, *Camponotus compressus* 3674
 habitat preferences, wildlife management, agricultural land, *Pardix pardix* 479
 host plants effects on, *Musimena vana* 273
 juveniles, high fat diet, rats 1446
 larvae, *Popillia japonica* 304
 novelty, chloridazepoxide effects on, rats 3283
 novelty, chloridazepoxide effects on, rats 4361
 nutrients, feeding behavior, drug effects, naloxone, rats 983
 nuts, foraging behavior, *Sciurus carolinensis* 2745
 predator, *Caolotilus microps*, USA, North Carolina Coast 3696
 predator-prey interactions, feeding behavior, *Nautica maculosa*, *Taxis canifer*, *Anadara granosa* 281
 predators, feeding behavior, *Anura* 328
 predators, feeding behavior, *Mariposa tigrina*, Insecta 286
 predatory behavior, *Colomys goslingi*, Africa 2742
 predatory behavior, *Lepidoptera*, *Argiope brunneich* 2611
 prey odors, chemoreception, *Homonas americanus* 2609
 reproductive behavior, habitat preferences, *Pygodermis blabianum* 2900
 seasonal variations, *Gnathometopon tubiformans*, USA, Texas 292
 seasonal variations, *Sus scrofa*, USA, Tennessee 485
 seeds, comparative studies, *Cardinalis cardinalis*, *Spizella pusilla* 358
 seeds, feeding behavior, *Pogonomymex rugosus*, *Veromessor pergandei* 1437
 specialization, food composition, saccharides, *Apis mellifera* 1417
 substrate preferences, foraging behavior, yeasts, *Drosophila mojavensis* 2629
 taste perception, food plants, chemical stimuli, *Sciurus aberti*, *Pinus ponderosa* 392
 webs, *Mastophora dizzydeani* 1523.
- Food selection,**
 conditioning, aversion learning, visual discrimination, pretraining, rats 1780
 feeding behavior, food composition, fish larvae, *Scorbaidae* 340
 feeding behavior, predation, *Procyon lotor*, USA, North Dakota 1491
 feeding behavior, predators, trophic relationships, *Valenciennellus truncatus* 333
 food availability, foraging behavior, predators, *Anolis aeneus* 1450.
 grazing, predatory behavior, herbivores 255
 measuring techniques, *Portunidae* 257
 predation, feeding behavior, *Nautica tecta* 275
 predation, *Perognathus longimembris*, *Gambelia wislizeni*, USA, Nevada, Churchill Co. 3681
 predation, seasonal variations, diets, *Tadorna tadorna*, British Isles, Scotland 353
 predation, *Tadorna tadorna*, *Hydrobia* 352
 predation, zooplankton, *Neomysis mercedis*, USA, Washington, Washington L. 266
 predator-prey interactions, *Phrynosoma platyrhynchos*, *Pogonomymex californicus*, USA, Nevada 1521
 predators, feeding behavior, prey size, competition, *Sorex araneus* 399
 predatory behavior, *Crocota crocata*, Namibia, Namib Desert 3748
 prey, foraging behavior, habitat utilization, *Chionis minor* 2711.
 prey, predatory behavior, *Agomum dorsale* 3509
 prey, predatory behavior, *Alcedo atthis*, Belgium, Lesse R. 3715.
 prey, predatory behavior, *Pardosa vancouveri* 2636
 prey, predatory behavior, vision 2602.
- Food sources,**
 chemical communication, foraging behavior, colonial characteristics, *Formica polyctena* 1442
 competition, larvae, *Musca autumnalis* 448
 display, wagtail dance, orientation, sky, *Apis florea* 3383.
 feeding behavior, *Cercopithecus pygerythrus*, *Acacia tortilis*, *Acacia xanthophloea* 1520
 feeding behavior, *Eurydice affinis*, British Isles, England Coast 3663.
 food preferences, *Odocoileus hemionus* 412.
 foraging behavior, niche pattern, *Bombus terrestris*, *Bombus lapidarius* 2655.
 fruits, feeding behavior, frugivory, *Lanius excubitor*, Algeria 3721
 homing behavior, landmarks, foraging behavior, *Apis mellifera* 3002.
 memory, storage, *Parus palustris* 4021.
 orientation, locomotor activity, foraging behavior, *Rhodnius prolixus* 2651.
 population density, effects on feeding behavior, *Phytoseiulus persimilis*, *Amblyseius degenerans* 284.
 population density, effects on feeding behavior, predation, *Phytoseiulus persimilis*, *Amblyseius degenerans* 283
 predatory behavior, *Enhydra lutris*, *Aechmophorus occidentalis*, USA, California 2747
 recruitment, chemical communication, pheromones, *Tetramorium impurum* 1150.
 stimuli, flocking behavior, *Ardeidae* 356.
 territorial behavior, *Eupomacentrus dorsoponicus* 2351.
 vocalization behavior, altruism, *Parus atricapillus* 3413.
 vocalization behavior, flight, male, *Nectarinia venusta* 313.
 wildlife management, breeding, territorial behavior, *Odocoileus virginianus* 2488.
- Food webs,**
 feeding behavior, diets, fruits, evolution, *Antrozous pallidus* 1493.

Forage.

- food availability, effects on social behavior, *Macaca radiata* 2590.
- Foraging behavior,**
 activity patterns, food availability, *Anas* 3704.
 activity patterns, males, *Plebeia dryonaria* 3677
 activity patterns, *Petroica australis australis* 3860.
 aggregation behavior, food availability, *Nasalis larvatus* 3761
 aggregation, cattle 3350
 annual variations, environmental factors, *Odonotermes walloniensis*, India 2633.
 anti-predator behavior, interspecific relationships, *Latrodectus hesperus*, *Pogonomymex rugosus* 2809.
 anti-predator behavior, intraspecific relationships, freshwater environments, *Notonecta hoffmanni* 3779
 brood rearing, environmental factors, *Chaetura pelagica* 2540.
 carrion location, *Microphonus carolinus* 2650
 chemical perception, attractants, effects on pollinators, *Apis mellifera* 2635.
Cicindela ocellata reticulata, USA, Texas 3790
 circadian rhythms, seasonal variations, *Atta insularis* 2654.
 cleptoparasitism, colonies, *Melipona rufiventris flavolineata* 2657.
 colonial characteristics, chemical communication, food sources, *Formica polyctena* 1442.
 colonial characteristics, recruitment, auditory communication, *Larus bulleri* 2289.
 colonies, competition, spatial distribution, *Pogonomymex badius* 1424.
 commensalism, *Dryocopus pileatus*, *Picoides villosus* 2727.
 continuous reinforcement, flowers, *Bombus edwardsi* 1644
 diets, diel variations, *Procyon lotor* 2746.
 diets, home range, *Proteles cristatus*, Namibia, Namib Desert 3756.
 diets, niche pattern, *Dicrurus hottentotus* 2712.
 diets, *Rattus rattus* 2763
 diets, *Spansoma radans* 2676
 energetics, optimization, parental behavior, *Aves* 1479.
 energy intake optimization, *Bombus flavifrons*, *Bombus appositus* 2630.
 environmental effects, population levels, habitat, isolation, *Dendroica virens*, *Dendroica coronata* 2689
 feeding behavior, colonial characteristics, *Camponotus vagus* 1412.
 feeding behavior, *Olea europaea* orchards, *Aves* 2731.
 feeding behavior, predators, *Oenanthe oenanthe* 1481.
 feeding behavior, winter, *Alauda arvensis* 2732
 feeding immunity, *Apis mellifera*, *Apis bradleyi* 3719.
 feeding, *Pluvialis squatarola*, *Pluvialis dominica*, *Arenaria interpres*, Canada, Manitoba 2696
 flocking behavior, food availability, *Aves* 1470.
 flocking behavior, grasslands, *Corvus frugilegus* 2658
 flocking behavior, predators avoidance behavior, *Passer domesticus* 2837.
 flowers, chemical communication, scent marking behavior, *Bombus vosnesenskii* 1133.
 flowers, prunes, *Hymenoptera*, USA, Wyoming 1441.
 food availability, *Anas platyrhynchos* 3711.
 food availability, *Saxicola rubetra* 1469.
 food consumption, ecology, predators, deserts, *Lacertilla* 1559.
 food preferences, nuts, *Sciurus carolinensis* 2745.
 food selection, *Phrynosoma platyrhynchos*, *Pogonomymex californicus*, USA, Nevada 1521
 food selection, prey, *Agomum dorsale* 3509
 food sources, niche pattern, *Bombus terrestris*, *Bombus lapidarius* 2655.
 food sources orientation, locomotor activity, *Rhodnius prolixus* 2651.
 habitat, tides effects on, *Calidris alba* 3703
 habitat utilization, breeding, *Anas platyrhynchos* 2895.
 habitat utilization, colonies, *Larus bulleri* 3708
 habitat utilization, food selection, prey, *Chionis minor* 2711
 habitat utilization, *Macaca fascicularis*, Mauritius 3763.
 hoarding behavior, seeds, *Corvidae* 3731.
 home range, *Hylobates klossii* 2369
 home range, vegetation patterns, rain forests, *Hylobates*, Indonesia 2871
 homing behavior, landmarks, food sources, *Apis mellifera* 3002.
 hunger, abundance, predator-prey interactions, *Coccinella californica*, *Acyrtosiphon pisum* 1430
 locomotor activity, food availability, *Copepoda* 2620
 nest building, rhythms, *Hemadestes truncatum* 2789.
 nestling behavior, *Agapostemon virescens* 1535.
 optimization, *Meliphagidae* 2692
 optimization, nectar reinforcement effects on, *Bombus sandersoni*, *Vespa vulgaris* 1414
 optimization, predation, *Falco sparverius* 3709
 optimization, predator-prey interactions, models 3654.
 optimization, reinforcement schedules, pigeons 1650.
 optimization, *Trochilidae* 2691.
 orientation, navigation behavior, *Apis mellifera* 3006.
 parental behavior, females, *Desmognathus ochropheus* 2522.
 pheromones, polythetic behavior, *Nasutitermes corniger* 2278.
 pollen attractancy, *Apis mellifera* 3675
 pollinators, *Araia hispida* 3671.
 pollinators, Centris, Panama 2652.
 pollinators, *Diadasis afflicta*, USA, Texas 3519
 pollinators, *Digitalis purpurea*, *Bombus* 2648
 pollinators, plasticity, *Bombus bifarius*, *Bombus flavifrons* 2653.
 predation, energetics, habitat variation, *Argiope trifasciata*, *Araeus trifolium* 3665
 predation, larvae, *Coccinella trifasciata*, *Coccinella californica*, *Coccinella undecimpunctata*, *Cycloneda polita* 1428.
 predation, mathematical models 2598.
 predation, *Megaponera foetens* 1393.
 predation, population density, spatial distribution, prey, *Phytoseiulus persimilis*, *Amblyseius degenerans* 2606.
 predation, zooplankton, *Oncorhynchus nerka* 2674.
 predator-prey interactions, larvae, *Chrysopa carnea*, *Hippodamia convergens* 1429.
 predator-prey interactions, prey spatial distribution, diel variations, *Parulidae* 2690.
 predators, food consumption, energy intake, *Macrodon quinquemaculatus* 3670.
 predators, food organisms ingestion, *Micropterus salmoides*, *Lepomis cyanellus*, *Lepomis macrochirus* 3691.
 predators, food selection, food availability, *Anolis aeneus* 1450.
 predatory behavior, *Chaetodon capistratus*, *Chaetodon aculeatus* 2681.
 predatory behavior, *Latucauda colubina* 2666.
 predatory behavior, light effects on, *Abramis brama* 3692.

Foraging behavior, (continued)

- prey capture efficiency, Cichlidae, *Colaptes auratus* 2702.
resource partitioning, colonies, *Pogonomymex owyhee* 2646.
resource partitioning, sympatric populations, *Andropadus latirostris*, *Bleda eximia* 2687.
role, associative learning, classical conditioning, *Columba livia* 3723.
scent marking behavior, *Apis mellifera* 2722.
scent marking behavior, *Procyon lotor* 3433.
seasonal variations, *Aepyrocercus melampus* 2756.
seasonal variations, interspecific relationships, intraspecific relationships, *Bombus* 2639.
seasonal variations, *Parulidae* 3710.
seeds localization, soil moisture effects on, *Rodentia* 2752.
seeds, *Nucifraga columbiana* 2726.
social behavior, nests, *Dorylinae* 2890.
social behavior, *Staphylinidae* 2563.
social behavior, *Sterna sandvicensis* 2706.
social interactions, adults, juveniles, *Rissa brevirostris* 2725.
social organization, *Kobus ellipsiprymnus*, Zimbabwe 1370.
strategy, webs, site location, *Araneidae*, *Linyphiidae* 2610.
substrate preferences, food preferences, yeasts, *Drosophila mojavensis* 2629.
temperature, winter, *Parus*, *Regulus*, *Certhia familiaris* 2715.
territory, spatial variations, temporal variations, *Myrmecocystus mimicus* 1418.
effects on, *Haematopus ostralegus* 2693.
Trochilidae, *meliophaga* 1486.
Turdus pilaris, *Turdus iliacus* 2707.
Tyrannidae 1484.
visual communication, dialects, range, *Apis mellifera carnica*, *Apis mellifera ligustica* 2768.
water currents, zooplankton population density, *Chromis punctipinnis*, USA, California Coast 2670.
workers, fungus gardens, colonial characteristics, *Macrotermes michaelensis* 1592.
workers recruitment, pheromones, *Myrmica rugulosa* 2645.
- Forciper legiostris**, thermoregulatory behavior, temperature tolerance, Indo-Pacific region 1562.
- Forcipomyia taiwanensis**, feeding behavior 314.
- Forebrain**, ablation, effects on oral behavior, chickens 3183.
lesions, effects on sexual behavior, spawning behavior, males, *Carassius auratus* 4219.
lesions, effects on visual discrimination, *Salamandra salamandra* 3181.
lesions, literature reviews, attack, defense, rats 882.
neurotransmitters, binding, circadian rhythms, sleep deprivation, rats 1942.
size, vocalization behavior, song, sex differences, *Serinus canarius* 782.
transplantation, effects on behavior, rats 4172.
- Forests**, acoustics, effects on vocalization behavior, song, *Thryothorus ludovicianus* 39.
feeding behavior, breeding success, *Parus major* minor, Japan 1308.
habitat preferences, activity patterns, *Peromyscus maniculatus*, *Clethrionomys gapperi*, *Napaeozapus insignis* 488.
spatial distribution, social organization, territorial behavior, *Mus musculus*, New Zealand 1225.
- Formica cunicularia**, aggressive behavior, attack, *Formica lugubris* 1193.
colonies, aggressive behavior, interspecific relationships, intraspecific relationships, *Formica lugubris* 2317.
- Formica lugubris**, aggressive behavior, attack, *Formica cunicularia* 1193.
- Formica obscuripes**, environmental effects, stress, population structure, castes 457.
- Formica polyctena**, colonial characteristics, foraging behavior, chemical communication, food sources 1442.
- Formica rufa**, escape learning, water 1717.
- Formica subsericea**, nesting behavior, colonial characteristics, movements 2436.
- Formicidae**, anti-predator behavior, defensive behavior, *Myrmecoleon* 2810.
feeding behavior, mathematical models 1431.
feeding, competition, Turkey 2658.
slavery, adaptiveness, fitness 506.
- Forms**, visual discrimination learning, *Apis mellifera adansoni*, *Melipona quadrifasciata anthidioides*, *Melipona rufiventris* 2961.
- Forxels**, ablation, effects on discrimination learning, rats 2039.
fimbria, lesions, effects on discrimination learning 595.
lesions, amnesia, short term memory, long term memory, monkeys 619.
- Fossils**, paleontology, locomotion, tool use, man 3855.
- Free operant avoidance**, effects on response, rats 585.
toluene effects on, rats 2089.
- Freezing**, aversion learning, CS freezing, shock 566.
- Fregata magnificens**, age, feeding behavior, cleptoparasitism 2729.
- Frequency**, echolocation, feeding behavior, predation, *Trachops cirrhosus* 390.
vocalization behavior, denervation, extrinsic tracheal muscles, control, juveniles, chickens 783.
- Freshwater environments**, feeding behavior, diets, *Musella vison*, *Lutra lutra* 2750.
foraging behavior, anti-predator behavior, intraspecific relationships, *Notonecta hoffmanni* 3779.
leaf litter, food preferences, feeding behavior, *Potamopyrgus jenkinsi* 1396.
- Fringilla coelebs**, early experience, effects on nesting behavior, migrations 3874.
hosts, parasites rearing, brood care, *Cuculus canorus* 2533.
interspecific relationships, song, territorial behavior, *Parus major* 2290.
social interactions effects on *Fringilla montifringilla* migrations timing 3012.
song learning, ontogeny 1168.
song, territorial behavior 3405.

Fringilla montifringilla,

migrations timing, temperature, food availability effects on, *Fringilla coelebs* social interactions 3012.

Frogs,

gustatory stimuli, bitterness, nerves response, adaptations, tongue 829.

Frontalin,

pheromones enantiomers, attractancy, *Dendroctonus frontalis* 2261.

Frugivory,

coevolution, fruits, seeds dispersal 2597.

Fruits,

acetic acid, effects on oviposition rhythms, *Drosophila melanogaster* 1279.
diets, feeding behavior, evolution, food webs, *Antrozous pallidus* 1493.
oviposition, deterrents, intraspecific relationships, *Rhagoletis basiola* 1130.
seeds, dispersal, frugivores, coevolution 2597.

Frustration,

discrimination learning, reinforcement manipulation, tranquilizers, rats 1790.
effects on aggressive behavior, man 78.

running, blocking, rats 1104.

Frustration theory,

behavioral contrast, operant conditioning, *Rattus rattus* 1105.

Fucus distichus,

spawning, site selection, behavior, littoral zone, mortality, air, exposure, *Climacocetus aculeatus*, Canada, British Columbia Coast 155.

Fulica americana,

avoidance behavior, cleptoparasitism, interspecific relationships, *Anas americana*, *Anas strepera* 2850.

Fulica americana americana,

migrations, USA, Colorado 3015.

Fulica atra,

communication, alarm behavior, foot slapping 2297.

Fulmarus glacialis,

vocalization behavior, auditory communication 3401.

Function,

behavior, noradrenergic, central nervous system, theories, reviews 1974.
webs, predatory behavior, aquatic environment, Wendigard 1395.

Functional morphology,

chelicerae, sexual dimorphism, mating behavior, *Macrobrachium nipponense* 2385.

cilia, locomotion, *Ciliata* 3031.

digestive tract, food preferences, *Ateles geoffroyi*, *Alouatta palliata* 417.

eye, visual perception, *Strix aluco* 4084.

feeding behavior, diets, *Cassidae* 2625.

feeding behavior, physiology, *Peromphthalus koelreuteri* 336.

fossils, skeleton, burrowing behavior, *Proscallops* 4072.

hip, thigh, bone biomechanics, jumping, locomotion, *Prosimii* 806.

jaw, predatory behavior, suction feeding, *Luciocephalus pulcher* 1464.

locomotion, walking, evolution, man 3854.

locomotor activity, *Amoeba proteus* 677.

locomotor activity, chemical stimuli, light effects, *Amoeba proteus* 678.

mating behavior, copulation, *Onychoteuthis borealijaponica* 2384.

mouthparts, feeding behavior, *Clibanarius longitarsus* 1408.

mouthparts, feeding behavior, *Gerres* 3699.

sense organs, auditory perception, *Tettigoniidae* 1908.

teeth, aggressive behavior, males, *Babryusa babryssa* 67.

Fungus gardens,

foraging behavior, alarm behavior, colonial characteristics, *Macrotermes michaelensis* 1592.

Furina,

diets, food organisms 1443.

Furina diadema,

diets, food organisms 1443.

GABA,

mating behavior, estrous receptivity, females, rats 793.

Gabonia gabriela,

feeding behavior, males, host plants *Heliotropium* 2643.

Gadus morhua callarias,

Baltic Sea, migrations, spawning, feeding, geographical variations, seasonal variations 651.

Gaidropsarus vulgaris,

food organisms, feeding behavior, *Anthus spinoletta* 3707.

Galago,

visual perception, cortex (visual) lesions effects on 877.

Galemys pyrenaeus,

tactile perception, object detection 3087.

Galeolaria caespitosa,

osmoregulation, salinity tolerance, ecological distribution, Australia Coast 2772.

Gallus domesticus,

forebrain ablation oral behavior 3183.

intracranial chemical stimulation, ventricles (cerebral), neurotransmitters, substance P, stereotyped behavior, thermoregulation 834.

Gallus gallus,

cleaning behavior, dust baths, diurnal variations, domestic animals 4138.

feeding behavior, water intake, food intake regulation, behavioral genetics 361.

operant conditioning, tonic immobility effects on performance 1123.

tonic immobility, chemoreceptors, drug effects, tryptophan 1124.

Gallus gallus domesticus,

mother-offspring interactions, vocalization behavior, prenatal experience 3589.

Gambelia wislizeni,

feeding behavior, food selection, predation, *Perognathus longimembris*, USA, Nevada, Churchill C. 3681.

Gambusia affinis,

activity patterns, endotoxins effects on, defense mechanisms, *Alyconacea* 2829.

Gamma-aminobutyric acid,

drug effects, locomotor activity, nucleus accumbens, rats 942.

learned helplessness, depression, drug effects, bicuculline 1950.

Ganglia,

optic tectum, electrophysiological recording, visual field, *Rana esculenta* 4186.

Gaps,

social behavior, foraging behavior 2563.

Gargaphia solani,

flight activity, seasonal variations 1864.

maternal behavior, predators, defensive behavior 1344.

- atmospheric conditions, effects on activity patterns, *Ornithonyssus* 1538
- ultrasonic vocalizations**,
nesting behavior, brood care, paternal behavior 3584
- territorial behavior, breeding success, mate selection, nests, courtship interference 3528
- ultrapoda**,
defense mechanisms, predation, Panama Gulf 264
- feeding behavior, predation, geographical variations, activity patterns, littoral zone 279
- food organisms, feeding behavior, *Asio flammeus* 2723
- uck pecko**,
ESB, mudbrain, effects on vocalization behavior 3218
- ultra mutilata**,
sexual reproduction, habitat preferences, Guam 2442.
- ultra oceanica**,
sexual reproduction, habitat preferences, Guam 2442
- ultrachelidon nitotica**,
colonial characteristics, feeding, nesting behavior 3810
- display, social behavior, sexual reproduction 2296
- umylosis serpens**,
larvae, feeding behavior, diurnal variations, food composition, environmental factors 342.
- unc mapping**,
genetic factors, chemotaxis, *Escherichia coli* 3842
- uncerlization**,
discrimination learning, memory, pigeons 2968
- ESB discrimination, rats 4264
- stimuli, adjective behavior, schedule-induced behavior, polydipsia, rats 1784
- unces**,
albinism, inbreeding, cognitive ability, locomotor activity, mice 1588
- courtship, mating behavior, hybrids, *Drosophila melanogaster*, *Drosophila simulans* 1582.
- gene che, role, chemotaxis, association flagella locomotor activity 3843
- lethality, effects on mating behavior, *Drosophila melanogaster* 2877
- natural selection, mating behavior, *Pteroptyx*, *Afrocmex*, *Xylocoris* 144.
- visual perception, preferential behavior, color, juveniles, *Coturnix coturnix japonica* 1889
- uncetic analysis**,
inherent, taste preferences chickens 3847
- uncetic control**,
hypertension, early experience, handling effects on, rats 3851
- obesity, food intake effects on wheel running, rats 4488
- uncetic factors**,
agonistic behavior, aggression, rats 1212
- albinism, exploratory behavior mice 288
- auditory perception, sound localization, *Tyto alba* 3082
- avoidance behavior, brain lesions effects on, mice 881
- discrimination learning, mice 2885
- disease resistance, brood disease, larvae removal, workers, *Apis mellifera* 3785
- domestication, evolution 1581
- fitness, jumping, activity patterns, *Mus musculus* 1589
- gene mapping, chemotaxis, *Escherichia coli* 3842
- isolation effects on social behavior, Primates 1629
- mate selection, social organization, *Peromyscus polionotus* 183.
- maternal behavior, nesting behavior, progesterone effects on, mice 3848
- mutants, sexual behavior, courtship, *Drosophila* 2628
- neurons anatomy, avoidance learning performance, mice 1587
- obesity, taste aversion learning, mice 1767
- orientation, water currents, juveniles, *Salmo gairdneri* 3009
- predatory behavior, chemoreception, *Thamnophis elegans* 646.
- reproductive behavior, breeding success, mice 3849
- sexual behavior, social behavior, *Larus* 2470.
- song, *Zonotrichia leucophrys* 1162.
- trisony, exploratory behavior, cognitive ability, mice 3850.
- uncetic relationship**,
avoidance behavior, anatomy, correlation, hippocampus, neurons, mice, rats 802.
- social behavior, colonial characteristics, measuring techniques, *Insecta* 3838
- uncetic variance**,
heredity, visual perception, activity patterns, *Columba livia* 3846.
- perching behavior, strains, selection, chickens 3338
- uncetics**,
aggressive behavior, mice killing, rats 865.
- color, preferential behavior, visual perception, juveniles, *Coturnix coturnix japonica* 1889.
- courtship, mating behavior, eye color mutants, *Drosophila melanogaster* 2880.
- courtship, song, *Drosophila melanogaster*, *Drosophila simulans*, *Drosophila mauritiana* 1291.
- endogenous stimuli, sleep (paradoxical), models 772.
- hybrids, conditioning, phenotypes, central excitatory state, *Phormia regina* 2881.
- males, mating behavior, competition, chemostereolization, *Anopheles culicifacies* 1248.
- mating behavior, mate selection, strains, *Tribolium castaneum* 2879.
- phenotypes, pleiotropy, color, preferential behavior, *Coturnix coturnix japonica* 1584.
- reproductive isolation, strains, competition, population density, *Drosophila melanogaster* 225.
- social behavior, mating behavior, *Apis mellifera*, *Melipona quadrifasciata* 223.
- uncenades**,
vertical distribution, diel variations, feeding behavior, Gulf of Mexico 1404.
- uncotype-environment interactions**,
open-field behavior, escape learning, avoidance learning, mice 2887.
- uncotypes**,
auditory stimuli, environmental effects, neonates, thyroxine, audiogenic seizures, C57BL/6J mouse 1923.
- heterogeneity, behavioral genetics, schooling behavior, *Notropis cornutus* 1583.
- host plants, oviposition, *Lygus hesperus* 1249.
- mating behavior, population density, *Clethrionomys glareolus* 2483.
- uncing**,
effects on mucinase, lesions, hypothalamus (medial), septum, nucleus accumbens, rats 4247
- uncoris punctipes**,
flight activity, seasonal variations 1865.
- predator-prey interactions, *Pseudoplia inclusus* 293.
- uncoris uliginosus**,
predator-prey interactions, *Pseudoplia inclusus* 293.
- Geographical distribution**,
courtship, activity patterns, movements, *Cervus elaphus roosevelti*, USA, California 2485.
- dens, site selection, habitat utilization, *Vulpes vulpes*, Germany, Fed. Rep., Saarbrücken 3825.
- effects on song variability, *Dendroica pensylvanica*, *Vermivora pinus* 1159.
- effects on song, *Zonotrichia leucophrys* 1162
- effects on speciation, *Drosophila heteroneura*, *Drosophila silvestris* 446.
- Litodactylus leucogaster*, North America 1420
- location, song, vocalization behavior, conspecifics, *Poocetes gramineus* 1160.
- mating behavior, *Cephalorhynchus commersoni*, *Kerguelen Is.* 179.
- migrations, adults, juveniles, *Empidonax flaviventris* 3016.
- migrations, aquatic animals, Aves, Beaufort Sea, USA, Alaska 1849.
- migrations, *Falco peregrinus tundrus*, USA, Rhode Island Coast 2908.
- palaeoecology, phylogeny, vocalization behavior, *Colinus badius* 2313.
- reproductive behavior, migrations, *Gerygone fusca*, *Gerygone levigaster*, *Gerygone mouki*, Australia 478
- vocalization behavior, sound production, *Eleutherodactylus coqui* 3395.
- Geographical variations**,
auditory communication, drumming, *Pteronarcella badia* 3386.
- auditory communication, vocalization behavior, *Mammalia* 2310.
- evolutionary genetics, feeding behavior, *Thamnophis elegans* 330.
- feeding behavior, competition, resource utilization, *Charadrii*, Peru 364.
- feeding behavior, predation, activity patterns, littoral zone, *Gastropoda* 279.
- feeding behavior, substrate preferences, stereotypic behavior, *Dendroica pinus*, Bahama Is 368.
- migrations, spawning, feeding, *Gadus morhua callarias*, Baltic Sea 651.
- sexual behavior, population studies, *Drosophila silvestris*, Hawaii 3517.
- song, acoustics, *Thryothorus ludovicianus* 3420.
- song, *Amphispiza belli* 3412.
- song, auditory communication, reproductive isolation, *Muellierianella* 3382.
- song, *Certhia familiaris* 2301
- song complexity, vocalization behavior, learning behavior, *Troglodytes troglodytes* 42
- song, *Emberiza calandra* 2305
- song, *Emberiza citrinella* 3416
- song, environmental effects, *Zonotrichia capensis*, Argentina 475.
- song, *Oenanthe isabellae* 3411
- song, population density effects on, *Emberiza calandra* 2300.
- song, *Toxostoma rufum* 3404
- thermoregulatory behavior, *Agua, Stelio stello* 3797
- visual communication, *Mirafra fuscina* 2303.
- vocalization behavior, song sequence, *Passerulus sandwichensis*, Canada 37.
- Geolyca domifex**,
activity patterns, diel variations, burrowing behavior 431.
- Geositta peruviana**,
nesting behavior, burrowing behavior, sexual reproduction, Peru 3535.
- Geospiza fortis**,
feeding behavior, seeds, *Tribulus cistoides* 1483.
- Geospiza magnirostris**,
feeding behavior, seeds, *Tribulus cistoides* 1483.
- Geotaxis**,
escape behavior, caves, *Troglodytes cavicola* 2803
- gravity receptors, *Arenivaga* 1907.
- magnetic fields, orientation, homing behavior, navigation behavior, aquatic organisms, reviews 2990
- orientation, larvae, *Hymenocidion sanguinea* 3011
- orientation, *Lymnaea stagnalis* 4034.
- orientation, magnetic fields, *Apis mellifica* 1844
- phototaxis, vertical distribution, *Drosophila* 1839.
- respiration, *Lymnaea stagnalis* 625
- Geothlypis trichas**,
foraging behavior, seasonal variations 3710
- Gerbilus glandowi**,
taste aversion learning, zinc phosphide, bait shyness 3959.
- Gerbils**,
defensive behavior, avoidance learning 1200
- grooming effects on, body temperature 1590
- infanticide, cannibalism, maternal behavior 1350
- isolation effects on social behavior 1617
- mating behavior, aggressive behavior, sex hormones 2496.
- mating behavior, sex hormones effects on 2495
- memory, scopalamine effects on 3285
- nursing, reproductive behavior, fecundity, fertility 1330.
- taste aversion, avoidance learning, neophobia 3961.
- taste aversion learning, sugars 3926.
- urine odors, olfactory discrimination, methodology 2203.
- visual perception, visual discrimination, methodology, cortex (visual) ablation 721
- Gerres**,
feeding behavior, mouthparts, functional morphology 3699.
- Gerrides**,
communication, vibratory stimuli, surface water, aquatic animals, reviews 2271.
- Gerygone fusca**,
geographical distribution, reproductive behavior, migrations, Australia 478.
- Gerygone levigaster**,
geographical distribution, reproductive behavior, migrations, Australia 478.
- Gerygone mouki**,
geographical distribution, reproductive behavior, migrations, Australia 478.
- Geukensia demissa**,
food organisms, feeding behavior, energetics, *Callinectes sapidus* 2618.
- Giant axons**,
effects on locomotor activity, *Procambarus* 818.
- neurons, tails, escape behavior, *Astacus* 824.
- Gills**,
reflexes (gill-withdrawal), *Aplysia californica* 819.
- Glaucous sabinus**,
social behavior, exploratory behavior, ontogeny 520.
- Gila gila**,
hibernation, feeding behavior, insulin effects on 1503.
- Globus pallidus**,
electrophysiological recording, 5-hydroxytryptamine neurons, sleep and wakefulness, cats 4143.
- kanic acid lesions, glutamic acid decarboxylase, substantia nigra, locomotor activity, rats 906.
- neurophysiology, conditioned response, locomotor activity, rabbits 3172.

- Glossina**,
auditory communication, sound production (biological) 1141.
feeding behavior, host searching behavior, visual stimuli, olfaction 318
host searching behavior, visual stimuli, olfaction 319.
resting behavior, habitat preferences, environmental factors, Niger, Mozambique 449.
- Glossina austeni**,
copulation, mating behavior 2414.
- Glossina morsitans**,
deterrents, males, mating behavior, homosexuality, sex pheromone 116
mating behavior, marking, capture-recapture studies 1086
sound production (biological), age effects on, hunger 5.
- Glossina morsitans morsitans**,
copulation, mating behavior 2414
mating behavior deterrents, cuticle lipids 3516.
resting behavior, activity patterns, breeding status, gravid, virgin, females 2418
resting behavior, habitat preferences, environmental factors, Niger, Mozambique 449.
- Glossina morsitans submorsitans**,
resting behavior, habitat preferences, environmental factors, Niger, Mozambique 449.
- Glossina pallidipes**,
sex pheromone, sexual behavior 3385.
- Glossina palpalis**,
mating behavior, sex pheromone effects on 111.
resting behavior, habitat preferences, Mali 436.
- Glossina tachinoides**,
resting behavior, habitat preferences, environmental factors, Niger, Mozambique 449.
- Glossosomatinae**,
drift, environmental effects, Australia, A.C.T., Condor Creek 433.
- Glucagon**,
food intake regulation 4180.
- Glucocorticoids**,
effects on estrus, sexual behavior, pigs 3314.
- Glucose**,
effects on activity patterns, heat shock, rats 3121
intracranial chemical stimulation, effects on food intake, rats 3116.
metabolic rate, motor activity, brain, Macaca mulatta 874.
- Glucose metabolism**,
brain, grooming, corticosterone, mice 4213.
ventricle (fourth), alloxan effects on, food intake, rats 4196.
- Glutamate**,
intracranial chemical stimulation, effects on defensive behavior, rage 4274.
- Glutamic acid**,
aggressive behavior medication, hypothalamus neurons, cats 4197.
- Glutamic acid decarboxylase**,
enzymatic activity, substantia nigra, kainic acid lesions, locomotor activity, rats 906.
- Glutamine**,
effects on activity patterns, stereotyped behavior, rats 4218.
- d-Glutamine**,
drug effects, avoidance behavior, amnesia, epilepsy, juveniles, chickens 2077.
- Glycera alba**,
feeding behavior, burrowing, comparison, Glycera maculata 271.
- Glycera maculata**,
feeding behavior, burrowing, comparison, Glycera alba 271.
- Glycine**,
chemotaxis, HeLa cells, Salmonella typhimurium 4031.
- Glycoprotein**,
biosynthesis, hippocampus, apomorphine, memory, apomorphine effects on, rats 4337.
- Glypyrrrhizin**,
effects on avoidance behavior, activity patterns, rats 3238.
- Glyphodon**,
diets, food organisms 1443.
- Glyptothorax pectinopterus**,
feeding behavior, seasonal variations 2675.
- Gnathatermes tubiformans**,
food preferences, seasonal variations, USA, Texas 292.
- Gnawing**,
stereotyped behavior, neuroleptics effects on, mice 952.
- Go/no-go discrimination learning**,
associative learning, stimulus quality, dogs 4005.
blocking, rats 1686.
color, cortex (prefrontal), neurons activity, monkeys 4210.
effects on amines, brain, cats 1991.
stimulus control, blocking, rats 4003.
- Goal-tracking**,
acquisition, extinction, rats 3936.
- Goats**,
agonistic behavior, social organization, aggressive behavior 3635.
maternal behavior, separation effects on, mother-offspring interactions 3599.
thyrolobin effects on activity patterns 4407.
- Gonads**,
feeding behavior, diets effects on, Zonotrichia leucophrys gambelii 3549.
sexual reproduction, annual cycles, photoperiods, Ploceus philippinus 169.
- Goniatodes vittatus**,
courtship, aggressive behavior 2893.
- Gonia sagax**,
traps, catches, oviposition 109.
- Gonodactylus bredini**,
interspecific relationships, competitive behavior, chemical communication, Octopus joubini 425.
- Gopherus agassizii**,
feeding behavior, soil, nutrient requirements 3682.
- Gopherus polyphemus**,
social interactions, home range, breeding behavior, burrowing behavior, dispersal, USA, Georgia 510.
- Gorilla**,
recognition, self-stimulation 602.
- Gorilla gorilla**,
emotional behavior, sexual behavior, parental behavior, books 4492.
- Gorilla gorilla gorilla**,
rearing, handling, social behavior 3868.
- Gorilla gorilla gorilla**, (continued)
rearing methodology, social environment 4439.
teeth, mastication, anterior dental microwear, diets, feeding behavior 4437.
- Gorilla gorilla gorilla**,
mother-offspring interactions, social behavior ontogeny 1355.
- Gossypium aboreaum**,
damage, feeding behavior, larvae, Heliothis zea, USA, New Mexico 295.
- GPA 1843**,
antagonists, opioids, drug effects, feeding, rats 2131.
- Gracila religiosa**,
vocalization behavior, visual stimuli, associative learning 3400.
- Grafting**,
adrenal chromaffin cells, lesions, substantia nigra, neurotransmitters, dopamine, rotation, rats 896.
- Grallina cyanoleuca**,
predation, eggs, interspecific relationships, nests, struthidea cinera, Australia 3724.
- Grapholthia molesta**,
communication disruption, synthetic sex pheromone 9.
flight, sex pheromone, chemotaxis, visual stimuli 3005
males, pheromones, behavior response, threshold limits 15.
- Grasping**,
electrophysiological recording, purkinje fibers, cerebellum, monkeys 879.
- Grasses**,
grazing, digestion, cattle 398.
- Grassland**,
grazing, climate, sheep 410.
- Gravity**,
effects on, motility, locomotion, Naegleria gruberii 676.
geotaxis, respiration, Lynnaea stagnalis 625.
learning behavior, maze learning, artificial weightness, rats 601.
receptors, sensilla, Arenivaga 1907.
retention, maze learning, space flight, rats 2981.
sensitivity, neurons, orientation, Gryllus 640.
- Grazing**,
diets, olfactory bulb ablation effects on, sheep 4223.
energy budget, milk reduction, play, juveniles, Odocoileus virginianus 2232.
feeding behavior, cattle 2212.
feeding behavior, environment recognition, horses 3347.
feeding behavior, environmental effects, sheep 2218.
feeding behavior, food availability, physiology, environmental conditions, Connocates ianuris 2739.
feeding behavior, food preferences, environmental effects, Ovis aries 2220.
feeding behavior, pasture vegetation patterns, effects on, sheep 383.
food preferences, diets, nutrition, cattle 1499.
food selection, predatory behavior, herbivores 255.
grasses, digestion, cattle 398.
locomotion, environmental effects, Paracenturus lividus 274.
pests feeding, effects on cattle, Musca autumnalis 4453.
rotation, pasture, irrigated areas, stocking rates, body weight, sheep 414.
sheep, grassland, climate 410.
social behavior, dominance, leaders, cattle 1376.
trail following behavior, Onchidium verruculatum 623.
walking distance, management, cattle 3355.
walking, effects on, reproductive behavior, cattle 2207.
- Gromphadorhina chopardi**,
sound production, auditory communication 3387.
- Grooming**,
ACTH effects on, hippocampus lesions, rats 2031.
ACTH effects on, hippocampus lesions, rats 2043.
activity patterns, social behavior, Melospiza undulata 3618.
amygdala lesions effects on, rats 3190.
anting, new records, Prionodura newtoniana 4469.
cleaning behavior, Rhinolophus ferrugineus 4468.
cortex ablation, age effects, rats 1956.
corticoblem effects on, rats 4408.
corticosterone, glucose metabolism, brain, mice 4213.
corticotropin effects on, dopamine role, rats 4206.
dehydration effects on, water loss, Rattus norvegicus 2869.
display, juveniles, Molothrus ater 38.
diurnal variations, Macaca fuscata 3648.
drug effects, benzodiazepines, intracranial chemical stimulation, adrenocorticotrophic hormone, β -endorphin, mice 2135.
drug effects, hallucinogens, environmental factors effects on, cats 969.
drug effects, neuroleptics, dopamine, chemoreceptors, mice 856.
drug effects, pilocarpine, cats 2155.
early experience effects on, noise, rats 3878.
effects on, thermoregulation, gerbils 1590.
mating behavior, copulation, Otus trichopsis 3541.
motor activity, cortex ablation, environmental effects, rats 2029.
naloxone effects on, mice 3270.
neuroleptics, antidepressants, novelty, rats 3291.
oxytocin, vasopressin, effects on, mice 4405.
pair bond, sex differences, social interactions, Cacatus roseicapilla 3620.
play, social behavior, Aotus trivirgatus 3869.
prolactin effects on, rats 2179.
rhythms, seasonal variations, photoperiods, lesions, pons, cats 1939.
scent marking behavior, social behavior, sexual behavior, Callithrix jacchus 2512.
sex hormones effects on, rats 3319.
sexual behavior, social behavior, Acomys cahirinus 3559.
shock stress, rats 2238.
stereotyped behavior, arousal, amphetamine, hormones effects on, rats 1002.
tool use, mother-offspring interactions, Macaca fuscata 4486.
water immersion effects on, rats 3364.
wet-dog shakes, drug effects, rats 4281.
- Grooming function**,
social behavior, Cerocebus albigena, Colobus badius, Cercopithecus mitis 1388.
- Groups**,
feeding, anti-predator behavior, vigilance, Antidorcas marsupialis 3831.
parturition behavior, Macaca mulatta, Nepal, Kathmandu 3582.
social behavior, activity patterns, time allocation, Macaca fuscata 247.
social behavior, Capra waliae 2582.
social interactions, sexual behavior, mother-offspring interactions, Macaca fuscata 3574.
social organization, subtrooping, seasonal variations, Papio ursinus, South

rouge, (continued)

- Africa, Sukkerbosrand 3647
 spawning behavior, *Tautoglabrus adspersus*, Canada, Newfoundland, Bonne Bay 153
rowth
 behavior ontogeny, arboreal species, *Thamnionis doitchicus* 3881
 diets, feeding behavior, *Poecilia reticulata* 335
 effects on distribution, *Octopus vulgaris*, Atlantic Ocean 81
 feeding behavior, aggressive behavior, sympatric populations, *Salmo gairdneri*, Salmu clarkii 2321
 feeding frequency, food intake, *Pleuronectes platessa* 3694
 filaments, food preferences, *Oxyne azuripunctata*, *Elysia cauze* 1391
 predatory behavior, imprinting, diets, *Homalozoon vermiculare* 265
 reproductive behavior, conspecifics diets effects on, rats 2735
 sexual maturity, social environment, *Rhombomys opimus* 3556
 suckling behavior, teats preferences, pigs 207
rowth rate
 nutrition effects on, maturation, reproductive behavior, *Papio cynocephalus* 2923
rus americana
 prey, *Aquila chrysaetos*, predatory behavior 1487
rus canadensis tabida
 mating behavior, territorial behavior 2477
 roosting behavior, habitat preferences 2838
rus grus
 birds of prey, migrations, weather, spring 1850
ryllidae
 auditory communication, calling behavior 2258
ryllus
 orientation, neurons, gravity sensitivity 640
ryllus bimaculatus
 maxillary palps, morphology, movements, feeding behavior, exploratory behavior 4151
 orientation, auditory stimuli 3068
ryllus campestris
 visual perception, antennae tracking 1882
ryllus integer
 social behavior, aggregation behavior, phonotaxis, song 3463
ryllus veletis
 food organisms, nest provisioning, overwintering, *Liris argentata* 1552
 social behavior, aggregation behavior, phonotaxis, song 3463
STP
 effects on lordosis behavior sexual behavior, rats 4176
uam
Perichirus articulatus, *Gehyra oceanica*, *Gehyra mutilata*, *Lepidodactylus lugubris*, *Hemidactylus frenatus*, sexual reproduction, habitat preferences 2442
ualls
 feeding behavior, competition, food availability, Aves, USA, Arizona 363
uulica pigo
 distress vocalization behavior, endorphins effects on 49
 lesions, cortex (prefrontal), delayed response, retention 903
 methodology, cerebrospinal fluid, sampling 1095
 yawning behavior, hormones effects on 1056
uulica pigo
 aversion learning, defensive behavior, burying behavior 3975
 avoidance learning, taste aversion, toxins 1737
 chemical communication, urine odors, stability 1180
 exploratory behavior, discrimination learning, nicotine intrauterine exposure effects on 4305
 isolation effects on social behavior 1617
 levadose-carbidopa, chronic effects, haloperidol behavior sensitivity 3289
 taste aversion, avoidance learning, neophobia 3961
 urine odors, preferences, fecal populations, juveniles 1178
Gustatory stimuli
 appetitive conditioning, anticipation learning, rats 3922
 bitterness, nerves response, adaptations, tongue, frogs 829
 chemoreception, orientation, host plants, *Dendroctonus ponderosae* 3000
 di-cathinone, taste aversion learning, rats 3962
 feeding behavior, vitamins deficiency, retinol, juveniles, chickens 373
 taste perception, sensitivity, neurons, solitary tract, nucleus 4120
 urea, sugars, food preferences, *Camponotus compressus* 3674
Gymnorhina tibicen
 exploratory behavior, play, juveniles 1108
 play fighting, social behavior 4471
Gymnorhina cynocephalus
 vocalization behavior recognition, offspring, parental behavior 2302
Gymnotus
 electric perception, electric organs 3078
Gynaephora rosali
 thermoregulatory behavior, orientation, sunlight 2808

Habitat, (continued)

- activity patterns, *Apocera*, *Rhaphiomidas* 2796
 activity patterns, feeding behavior, wildlife conservation, *Dugong dugon* 2902
 community composition, aggressive behavior, interspecific relationships, *Parcoblatta* 2812
 competition, aggressive behavior, *Vireo olivaceus*, *Vireo philadelphicus* 2324
 competition, streams, *Salvelinus fontinalis*, *Salmo trutta*, USA, Michigan 2826
 ecological distribution, territorial behavior, mangrove swamps, *Periophthalmus*, *Peniophthalmus schlosseri* 2352
 environmental effects, social behavior, parental behavior, dispersal, juveniles, *Marmota flaviventris* 239
 feeding behavior, aggressive behavior, sympatric populations, *Salmo gairdneri*, *Salmo clarki* 2321
 feeding behavior, host plants, *Stylommatophora* 2617
 food availability, diets, *Panurus bairdii* 2698
 foraging behavior, tides effects on, *Calidris alba* 3703
 isolation, environmental effects, foraging behavior, *Dendroica virens*, *Dendroica coronata* 2689
 locomotor activity, activity patterns, social environment, isolation, rats 1571
 mating behavior, male selection, *Eristalisia* 3510
 nest building, population studies, *Pan troglodytes*, Equatorial Guinea, Senegal 3867
 nesting behavior, ecological distribution, *Micospiza* 2412
 nesting behavior, oviposition, *Tyrola subita* 2416
 orientation, littoral zone, *Talitrus saltator* 2996

Habitat, (continued)

- oviposition, reproductive behavior, *Phyllodactylus galapagensis* 2447
 population structure, social organization, *Cervus dama*, France, Alsace 3624
 song, acoustics, *Thryothorus ludovicianus* 3420
 song, auditory communication, *Caprimulgus carolinensis*, *Caprimulgus voliferus*, USA, Georgia 1158
 variation, energetics, foraging behavior, predation, *Argiope trifasciata*, *Araneus infolium* 3665
Habitat preferences
 acclimation, temperature tolerance, *Cryptotermes* 456
 activity patterns, forests, *Peromyscus maniculatus*, *Clethrionomys gapperi*, *Napeocapus insignis* 488
 colonies, breeding success, *Rhynchops niger*, USA, New Jersey, Barnegat Bay 2464
 demography, brain size effects on, *Didelphis* 790
 ecological distribution, burrowing behavior, vegetation patterns, *Insectivora* 487
 ecological distribution, *Macropus giganteus* 2866
 feeding behavior, echolocation, *Eiderma maculatum* 406
 feeding behavior, food composition, predators, sex differences, *Trionyx muticus* 327
 feeding behavior, *Lepomis macrochirus* 2672
 feeding behavior, roosting behavior, *Agelaius phoeniceus*, Canada, Ontario 1564
 food availability, diets, seasonal variations, *Meles meles*, Italy 1494
 food preferences, wildlife management, agricultural land, *Perdix perdix* 479
 nest building, *Buteo lineatus* 3540
 nest building, urban environment, Aves 174
 nesting behavior, *Columba palumbus*, *Milvus migrans* 2529
 nesting behavior, feeding behavior, reproductive behavior, breeding success, *Toxostoma curvirostre*, *Toxostoma longirostre* 168
 nesting behavior, mating behavior, *Dumetia carolinensis* 1310
 nesting behavior, *Motacilla cinerea* 2468
 nesting behavior, *Oryzomys palustris* effects on, sympatric populations, *Ammodramus* 420
 nesting, diets, feeding behavior, *Falco chicquera*, Zambia 1565
 nests, agonistic behavior, *Apis mellifera* 57
 nests, feeding behavior, song, *Chenonanthus* sp., New Guinea 1566
 nests, mice 3567
 osmoregulation, autecology, *Kinosternon bauri* 460
 oviposition, *Drosophila nigrospracula*, *Drosophila mettleri* 122
 oviposition, host plants, *Eupytchia libye* 2423
 oviposition, *Maruca testalis* 103
Perichirus articulatus, *Gehyra oceanica*, *Gehyra mutilata*, *Lepidodactylus lugubris*, *Hemidactylus frenatus*, Guam 2442
 photokinesis, activity patterns, *Tribolium castaneum*, *Tribolium confusum* 1548
 physical properties, vegetation patterns, territorial behavior, *Dendragapus obscurus* 2360
 predation, interspecific relationships, *Plethodon cinereus*, *Pipilo erythrophthalmus*, *Toxostoma rufum* 2820
 reproductive behavior, food preferences, *Pygodermis labiatus* 2900
 resting behavior, environmental factors, *Glossina*, Niger, Mozambique 449
 resting behavior, *Glossina palpalis*, Mali 436
 roosting behavior, *Grus canadensis tabida* 2838
 social organization, ecological distribution effects on, *Callimico goeldii*, Bolivia 1380
 vegetation patterns, *Odocoileus hemionus* 2868
 winter, sex differences, *Falco sparverius* 472
Habitat selection
 ecological distribution, territorial behavior, *Labrisomidae filamentosus*, Barbados 466
 feeding behavior, predation, *Noctonecta*, British Isles 1436
 home range, breeding, *Anas rubripes* 3534
 intraspecific relationships, aggregation, intertidal environment, *Clinocottus analis* 2831
 intraspecific relationships, dominance, competition, *Parus major* 3813
 nesting behavior, environmental factors, colonies, *Larus dominicanus*, South Africa 1302
 nesting behavior, vegetation, wind, *Larus argentatus* 2466
 population density, dispersal, colonization, intraspecific relationships, *Peromyscus maniculatus*, Canada, British Columbia, Mandarte I. 90
 sex differences, *Ovis canadensis*, Canada, Alberta 2865
 shells, environmental factors, predation, *Paguridae* 424
Habitat utilization
 activity patterns, breeding, *Anas platyrhynchos* 2895
 activity patterns, mobility, *Microtus arvalis* 3819
 activity patterns, moonlight effects on, *Dipodomys ordii* 2867
 dens, site selection, geographical distribution, *Vulpes vulpes*, Germany, Fed Rep., Saarbrücken 3825
 diets, movements, *Opheodrys aestivus* 3800
 echolocation, predatory behavior, *Chiroptera*, Australia, Queensland, Chillagoe 3740
 feeding, activity patterns, *Presbytis pileatus*, Bangladesh, Madhupur Forest 2589
 feeding behavior, foraging behavior, *Macaca fascicularis*, Zimbabwe 3763
 feeding, territorial behavior, *Kobus ellipsiprymnus*, Zimbabwe 1370
 foraging behavior, colonies, *Larus bulleri* 3708
 foraging behavior, food selection, prey, *Chionis minor* 2711
 home range, social organization, dominance, territorial behavior, *Uta stansburiana* 1220
 sheltering behavior, *Octopus bimaculatus*, USA, California Coast 2774
 territorial behavior, home range, competition, *Tamias striatus* 1223
 territorial behavior, population density, *Alactagulus aconitum*, USSR, Kazakhstan 3473
Habituation
 arousal, telencephalon lesions, *Rutilus rutilus* 3182
 associative learning, mutation, *Drosophila* 3844
 auditory stimuli, ultrasonics, rats 1920
 avoidance learning, escape behavior, pain, rats 3976
 avoidance learning, olfactory stimuli effects on, rats 1919
 classical conditioning, CS, UCS, rats 2926
 escape behavior, open-field behavior, competitive behavior, *Meriones unguiculatus* 1633
 exploratory behavior, startle response, hippocampus lesions effects on, rats 2032
 extinction, chicks, rats 3897
 fear, handling, shock, rats 3342
 heart arousal response, telencephalon ablation, *Carassius auratus* 3118
 heart rate, aversion learning, adults, neonates, cats 3968

Habituation, (continued)

- landing behavior, visual perception, *Drosophila melanogaster* 690
 locomotor activity, cat 2210.
 motor activity neurons, excitation, inhibition, defensive behavior, *Astacus* 823.
 olfactory perception, urine odors, rats 4112.
 orientation, ESS, cortex (auditory), midbrain, reticular formation, thalamus, cats 3211.
 reflexes (gill-withdrawal), mechanisms, nerve transmission depression, *Aplysia californica* 4183
 retention, cardiac conditioning, *Calliphora vomitoria* 529.
 sensitization, song, *Zonotrichia leucophrys nuttalli* 3892.
 sensory stimuli, acoustic startle response, rats 531.
 sex pheromone response, *Pectinophora gossypiella* 21.
 song, auditory communication, *Zonotrichia leucophrys nuttalli* 1630.
 song, *Melospiza melodia* 3402.
 startle response, licking behavior, reticular formation lesions effects on, rats 3205.
 stimuli specificity, exploratory behavior, drug effects, methodology 1078.
Hadena bicruris,
 anemotaxis, chemical stimuli, flowers 3008
Haemaphysalis irritans,
 pests effects on activity patterns, livestock 2209
Haematopus ostralegus,
 feeding behavior, food preferences, *Mytilus edulis* 3716.
 social hierarchy, food availability, juveniles, siblings 2375.
 territorial behavior, breeding sites, environmental factors 161.
 tides effects on foraging behavior 2693.
Haemulon flavolineatum,
 ontogeny, feeding behavior, migrations, juveniles, US Virgin Is., St. Croix 3873.
Haemulon plumieri,
 ontogeny, feeding behavior, migrations, juveniles, US Virgin Is., St. Croix 3873.
Haliaeetus leucorhaphus,
 adults, juveniles, intraspecific relationships, social behavior, social interactions 235.
 feeding behavior, food organisms, Testudines 3702
Halkiobes garnei,
 territorial behavior, mating behavior, social behavior, Panama Coast 341.
Halkiobes maculipinna,
 territorial behavior, mating behavior, social behavior, Panama Coast 341.
Halictidae,
 anti-predator behavior, soil-dropping behavior, *Tetramorium caespitum* 3792.
 communication systems evolution, effects on size distribution 20.
Halilucinations,
 predatory behavior, kainic acid, intracranial chemical stimulation effects on, cats 3219.
Halilucinogens,
 drug effects, discriminative stimuli, rats 2158.
 effects on appetitive conditioning, rats 4360.
 effects on responsiveness, neurophysiology, rats 2164.
 effects on responsiveness, neurophysiology, rats 2169.
 environmental factors effects on drug effects, grooming, reflexes, cats 969.
 3,4-methylenedioxymphetamine, 2,4,5-trimethoxymphetamine.
 N,N-dimethyltyramine, ptilocypin, effects on behavior, physiology, monkeys 1022.
 N,N-dimethyltyramine, effects on schedule-induced behavior, rats 3298.
Halobacterium halobium,
 chemotaxis, phototaxis 4033.
Haloates robustus,
 anti-predator behavior, avoidance behavior, aggregation behavior 3781.
 avoidance behavior, predator-prey interactions, locomotor activity 1555.
Haloperidol,
 chronic effects, stereotyped behavior, rats 3258.
 chronic exposure, sensitivity, dopamine, neuroleptics, grooming, mice 856.
 drug effects, aggressive behavior, sleep (REM) deprivation, rats 1005.
 drugs, response, rats 986.
 effects on alcohol locomotor activity induction, mice 967.
 effects on autoshaping, brain stimulation, rats 956.
 effects on food intake, body weight, rats 2087.
 effects on motor activity, learning behavior, mice 4379.
 effects on open-field behavior, rats 937.
 effects on operant conditioning responsiveness, statistical analysis, rats 991.
 effects on reinforcement, dopaminergic mediation, behavioral contrast, rats 3156.
 effects on tonic immobility, chickens 1122.
 intracranial self-stimulation, neurophysiology, rats 4273
 melanotropin fragments, effects on open-field behavior, avoidance behavior, rats 4363.
 phenylclidine behavior, stereotyped behavior, locomotor activity, rats 1012.
 sensitivity, age effects on, activity patterns, rats 3302.
 sensitivity, chronic effects, levodopa-carbidopa, guinea-pigs 3289.
Halothane,
 effects on motor activity control, cerebellum, mice 3282.
 enzymes, serum levels, correlation, stress, pigs 1118.
Hamsters,
 age effects on sexual behavior 3554.
 aggressive behavior, prolactin effects on, females 2340.
 aversion learning, defensive behavior, burying behavior 3975.
 circadian rhythms, drinking behavior, activity patterns 1940.
 circadian rhythms, locomotor activity, lutropin plasma levels, photoperiod 3105.
 cognitive ability, visual perception 1890.
 defensive behavior, burying behavior, piling behavior, avoidance behavior, shock 1733.
 females, testosterone implants, hypothalamus, lordosis behavior 1053.
 food intake, castration, photoperiod effects on 3747.
 food preferences, ethanol, dextrose 1504.
 gustatory stimuli, taste perception, sensitivity, neurons, solitary tract nucleus 4120.
 hoarding behavior, effects on maternal behavior, cannibalism 3570.
 lateral posterior nucleus anatomy, colliculus lesions effects on 846.
 locomotor activity, central nervous system, endrin effects on 951.
 males, septum lesions, intraspecific relationships, aggressive behavior 883.
 mating behavior, responsiveness, opiates antagonists effects on 4344.
 odor attractiveness, methodology 1922.
 reinforcement schedules, locomotor activity, hoarding behavior 3943.
 sexual behavior, estrogens effects on, lordosis behavior 3321.
 sexual behavior, ontogeny, fluoxymesterone effects on 2182.
 sexual behavior, sex hormones injection, serum levels, gonadotrophins, androgens

Hamsters, (continued)

1041.
 sexual behavior, sex hormones, sex differences 3322.
 testosterone effects on olfactory preferences, neophobia, castration 2184.
 thermoregulatory behavior, ontogeny 2870.
Hand,
 motor activity, nervous system, cortex, physiology, monkeys 875.
Handedness,
 appendages, juveniles, *Menippe mercenaria* 779.
 cerebral dominance, asymmetry, morphology, cortex, cats 796.
 cerebral dominance, *Macaca mulatta* 516.
 S 100 proteins, effects on, rats 797.
Handling,
 early experience, effects on hypertension, genetic control, rats 3851.
 effects on feeding behavior, *Aplysia* 1406.
 effects on mast cells abundance, rats 837.
 effects on social behavior ontogeny, *Canis lupus* 2916.
 effects on stress, activity patterns, pigs 3368.
 effects on tactile stimuli reactivity, rats 3086.
 fear habituation, chickens 3342.
 livestock, environmental factors, ethology, sheep 1101.
 rearing, social behavior, *Gorilla gorilla gorilla* 3868.
Haplochromis livingstoni,
 predatory behavior, mimicry, death feigning, Africa, Malawi L. 1462.
Hashish,
 acute toxicity, chronic effects, dominance, sexual behavior, mice 941.
Hatchability,
 eggs, fecundity, oviposition, *Chilo suppressalis*, Japan 1253.
Hatching,
 circadian rhythms, endogenous stimuli, *Uca pugnator* 1932.
 circadian rhythms, *Transversotrema patulaense* 1931.
 eggs, diel variations, *Athergona soccata* 3093.
 eggs, oral manipulation, brood care, *Alligator mississippiensis* 3583.
 mortality, territorial behavior, *Larus marinus* 2459.
 siblings competition, parental behavior, *Aechmophora occidentalis* 2526.
Hatching behavior,
 egg laying, *Anser caerulescens caerulescens* 1300.
 synchronization, survival, reproductive strategy, *Larus atricilla* 2841.
Haulout behavior,
 movements, radio-tagging, *Phoca vitulina*, Alaska Gulf 3023.
Head,
 motor activity, neurophysiology, brain, drug effects, lesions, rats 1984.
 movements, measuring techniques, equipment, cats 4430.
 movements, nystagmus, visual evoked response, *Tenebrio molitor* 705.
Heart,
 arousal response, habituation, telencephalon ablation, *Carassius auratus* 3118.
Heart rate,
 aversion learning, adults, neonates, cats 3968.
 blood pressure, aversion learning, rats 1792.
 calcium, magnesium effects on, ventricles (cerebral) injection, sheep 799.
 classical conditioning, blood pressure, monkeys 2946.
 classical conditioning stimuli, rats 4119.
 fear conditioning effects on, monkeys 2229.
 fear, rearing, chickens 4467.
 feedback, biomechanics, learning behavior, rabbits 762.
 hibernation, hypothalamus electrical stimulation effects on, self-stimulation, *Citellus tridecemlineatus* 923.
 latent inhibition, fear conditioning, rats 1636.
 operant response association, *Saimiri* 4216.
 stress, measuring techniques, livestock, cattle 4481.
 vagal cardiac neuron, cardiac conditioning, neurophysiology, visual evoked response, pigeons 1981.
Heat,
 avoidance behavior, *Cicindela ocellata* rectilata, USA, Texas 3790.
 temperature effects, food intake, feeding behavior, chickens, egg laying 1597.
Heat shock,
 glucose, effects on activity patterns, rats 3121.
Heat transfer,
 hypothalamus, temperature effects, brain, thermoregulation, *Colinus virginianus* 781.
Heaths,
 burnt ground, feeding behavior, food organisms, *Hepialus juveniles*, *Pyrrhocorax pyrrhocorax* 2713.
Heavy metals,
 pollution levels, avoidance behavior, *Salmo gairdneri* 3805.
 zinc, pollution effects, valves movements, *Scrobicularia plana* 2776.
Hedonic response,
 memory, conditioning, rats 4022.
 memory, serial order anticipation, reinforcement, rats 1704.
 taste preferences, flavor-flavor associations, rats 3924.
Hela cells,
 glycine, chemotaxis, *Salmonella typhimurium* 4031.
Heleoporus,
 burrows, morphology, effects on vocalization behavior acoustics 33.
Heleoporus albopunctatus,
 burrows morphology effects on vocalization behavior acoustics 33.
Heleoporus barycragus,
 burrows morphology effects on vocalization behavior acoustics 33.
Heleoporus evel,
 burrows morphology effects on vocalization behavior acoustics 33.
Heleoporus inornatus,
 burrows morphology effects on vocalization behavior acoustics 33.
Heleoporus psammophilus,
 burrows morphology effects on vocalization behavior acoustics 33.
Helicoverpa armigera,
 diurnal variations, flight activity, feeding behavior 4131.
 flight, diurnal variations, light, mobility 3097.
Heligmosomoides polygyrus,
 parasites, effects on dominance, males, mice 1230.
Heliopeche,
 drift, environmental effects, Australia, A.C.T., Condor Creek 433.
Heliothis punctiger,
 migrations, flight activity, radar, Australia, Bass Strait 1835.
Heliothis virescens,
 flight activity, temperature effects 1866.
 flight, sex pheromone, chemotaxis, visual stimuli 3005.

- Ellothia virescens*, (continued)**
 mating behavior, orientation, calling behavior, courtship 1246
- Ellothia zea***
 feeding behavior, larvae, damage, *Gossypium aboreum*, USA, New Mexico 295
 flight activity, temperature effects 1866
 host-parasite interactions, feeding behavior, Leguminosae 2627
 kairomones, effects on host searching behavior, *Trichogramma pretiosum* 18
 mating behavior, role, visual stimuli, pheromones 3511
 sex pheromone components, attractancy, effects on mating behavior 1151
- Elmopterus***
 host plants, feeding behavior, males, *Gabonia gabriela* 2643
- Elsonia trivialis***
 activity patterns, circadian rhythms 3088.
- Elis aspera***
 circannual rhythms, circadian rhythms, photoperiod, locomotor activity, sexual reproduction 748.
- Elis aspera***
 food consumption, predatory behavior, *Porrothoele antipodiana* 3666
- Elis pomantia***
 avoidance learning, retention 2983
- Elis pomantia***
 behavior modification, learning behavior, drug effects, pyromycin 528
 ergotamine, ergometrine, effects on locomotion, dopamine receptors 4279.
- Elleagle undulata rufula***
 prey, predators recognition, avoidance behavior, Falco 3766
- Ellothia zea***
 chemical stimuli, pheromones, vision, effects on mating behavior 2393
- Ematophagy***
 feeding behavior, chemical stimuli, *Simulium venustum* 2649.
 feeding behavior, 15 families, Diptera, Sweden 2637
- Emdeina thoracica***
 circadian rhythms, locomotor activity, environmental effects, New Zealand 3094
- Emucrotus pulcherrimus***
 swimming behavior development, embryos 3032
- Emictholium***
 drug effects, behavior, neurotransmission, rats 2163
- Emichromis bimaculatus***
 caffeine, effects on schooling behavior, spatial distribution 4282
 crowding, juveniles, effects on social spacing 2349
 neurons morphogenesis, crowding effects on, juveniles 3142
- Emidactylus frenatus***
 sexual reproduction, habitat preferences, Guam 2442.
- Emideina thoracica***
 circadian rhythms, locomotor activity, feedback models 751
 locomotor activity circadian rhythms, temperature effects 750
- Emigrapsus audus***
 aggressive behavior, social behavior, USA, Washington, San Juan I. 1360.
 escape behavior, maze learning 2959
- Emigrapsus oregonensis***
 escape behavior, maze learning 2959
- Epilais***
 food organisms, feeding behavior, burnt ground, heaths, *Pyrrhocorax pyrrhocorax* 2713.
- Epomis machrochiras***
 visual perception, eye movements 1887.
- Heptanone***
 boarding behavior, *Apis mellifera*, *Apis mellifera adonsonii* 3673
- Leptobrycon***
 diets, *Cynomys ludovicianus* 2762.
 food selection, grazing, predatory behavior 255
 foraging behavior, diets, *Spansema raddii* 2676
- Leptobrycon***
 diets, feeding behavior, *Platysercus eximius*, *Platysercus adscitus*, Australia 1472.
 food composition effects on, monoterpene, *Sciurus aberti* 1508
- Leredity***
 genetic variance, visual perception, activity patterns, *Columba livia* 3846.
- Leriades truncorum***
 nest building, foraging behavior, rhythms 2789
- Lertability***
 aggressive behavior, selection, *Mus musculus* 2884
 malnutrition effects on maternal behavior, nursing, rats 206.
 selection, open-field behavior, chickens 2883
 training level, horses 4450.
- Lernaphrodites***
 oviposition, copulation, *Lymnaea truncatula* 101
- Lerua***
 intrauterine exposure, effects on hyperactivity, motor task performance, sleep, laboratory animals 4276.
- Leroine***
 effects on taste aversion learning, rats 2116.
- Lerodilapia multiplex***
 dominance, social hierarchy, spawning 2374.
 social behavior, dominance, females 1364.
- Lerpes sanguineus***
 agonistic behavior, aggressive behavior, attack, escape behavior 2332.
 vocalization behavior, display 3436.
- Letaetaria vulnerata***
 territorial behavior, copulation, mating behavior, protection, females 2399.
- Leterogeny***
 genotypes, behavioral genetics, schooling behavior, *Notropis cornutus* 1583.
- Leteronymus arator***
 food consumption, roots, larvae, *Paspalum dilatatum*, *Lolium perenne*, *Trifolium repens* 298.
- Leteroneustes fossilis***
 brain, anatomy, correlation, feeding behavior 832.
- Leteragony***
 courtship, mating behavior, eye color mutants, *Drosophila melanogaster* 2880.
- Leterobital***
 inducers, sleep, lysine metabolites effects on, rats 3125.
- Libernation***
 activity patterns, hormones, *Nyctis lucifugus lucifugus* 2176.
 annual cycles, rhythms, photoperiod, temperature, *Eutamias amoenus*, *Eutamias minimus* 3102.
 feeding behavior, insulin effects on, *Glis glis*, *Eliomys quercinus*, *Spermophilus lateralis* 1503.
- Libernation*, (continued)**
 hypothalamus electrical stimulation effects on, self-stimulation, *Citellus tridecemlineatus* 923
 patterns, laboratories, rearing, *Eliomys quercinus* 1943
 thermoregulation adaptation, sleep 766
- Libernation behavior***
 longevity, aging, *Mesocricetus brandti* 773
 thyroidectomy, serum levels, thyroid hormones, radioimmunoassay, *Spermophilus richardsoni* 1044
- High fat diet***
 effects on, food preferences, sucrose, juveniles, rats 1446.
- Himantopus himantopus***
 social behavior, copulation, nesting behavior, vocalization behavior 2898.
- Hip***
 thigh, bone biomechanics, locomotion, functional morphology, *Prosimii*, jumping 806.
- Hippocampus***
 acetylcholine, choline, levels, biosynthesis, avoidance learning, rats 4179
 acetylcholinesterase activity, isolation effects on, *Meriones unguiculatus* 1918.
 activity, activity patterns, rats 4194.
 brain lesions, stereotyped behavior, locomotion, reward, *Rattus rattus* 885.
 cell loss, trimethyltin effects on, activity patterns, rats 4316.
 conditioned response, electrical stimulation, dogs 922
 damage, trimethyltin effects on, memory, maze learning, rats 4313.
 damage, trimethyltin effects on, problem solving, maze learning, rats 4314.
 degeneration, trimethyltin effects on, activity patterns, rats 4312.
 development, avoidance learning, reinforcement schedules, juveniles, rats 1730.
 EEG, neurophysiology, avoidance behavior, rats 2003.
 EEG, theta rhythms, sleep (paradoxical), rats 1947.
 electrical stimulation effects on memory, rats 1829.
 electrical stimulation, foot shock, memory, amnesia, rats 917.
 electrophysiological recording methodology, telemetry, sexual behavior, cats 4211.
 epilepsy, maze learning, rats 4190
 epilepsy, memory, maze learning, rats 4023.
 ESB, operant conditioning, cats 3213
 ESB, operant conditioning, defense, dogs 3212.
 formation, activity patterns, rats, 5-hydroxytryptamine, noradrenaline, rats 4200.
 glycoprotein biosynthesis, memory, learning behavior, apomorphine, effects on, rats 4337.
 intracranial chemical stimulation, histamine, effects on exploratory behavior, open-field behavior, rats 4169
 intracranial chemical stimulation, progesterone, lordosis behavior, females, rats 1040
 intracranial chemical stimulation, S 100 proteins, antisera, handedness, visual discrimination, rats 797
 intracranial chemical stimulation, scopolamine, nictitating membrane response conditioning, rabbits 838.
 learning behavior, lead effects on, juveniles, rats 3228.
 lesions, classical conditioning, rabbits 4249
 lesions, discrimination learning, neonates, rats 4229
 lesions, effects on exploratory behavior, habituation, rats 2032.
 lesions, effects on exploratory behavior, memory, rats 2037.
 lesions, effects on exploratory behavior, rats 910
 lesions effects on latent learning, rats 2017
 lesions, effects on maze learning, rats 3201
 lesions, effects on memory, maze learning, rats 2014
 lesions, effects on memory, rats 2041
 lesions, effects on retention, fear conditioning, rats 4227.
 lesions, effects on spatial discrimination learning, rats 4237.
 lesions, fear conditioning, memory, recovery of function, retention, rats 3184.
 lesions, grooming, ACTH effects on, rats 2031
 lesions, grooming, ACTH effects on, rats 2043
 lesions, intracranial recording, rats 2023
 lesions, paroxysmal activity, epilepsy, ESB, 5-hydroxytryptamine, rats 1996.
 lesions, recovery of function, rats 2040
 memory, early experience effects on, undernutrition, rats 1616.
 memory, spatial discrimination learning, rats 3166.
 neurons, anatomy, correlation, avoidance behavior, genetic relationship, mice, rats 802
 neurons, classical conditioning effects on, rats 868
 neurons depletion, lactic acid, spatial discrimination learning, avoidance learning, rats 3151.
 neurophysiology, avoidance learning, conditioned response, rabbits 572.
 neurophysiology, conditioning 3130
 neurophysiology, epilepsy, activity patterns, rats 3163.
 neurophysiology, theta rhythms, rats 3150.
 nucleosides levels, sleep and wakefulness, rats 770
 X-radiation, neonates, discrimination learning, rats 1955.
 resections, memory, recognition, monkeys 616.
 RNA biosynthesis, learning behavior, drug effects, ethymizol, rats 960.
 role, drug effects, alcohol, rats 1998
 role, problem solving, rats 1805
 septum, cognitive mapping, maze learning, memory, lesions, rats 4236.
 waves activity, aversion learning, appetitive conditioning, cats 869.
- Hippocampus (dorsomedial)***
 intracranial chemical stimulation, thyrotropin-releasing hormone, arousal, physical activity, *Citellus lateralis* 2063
- Hippodamia convergens***
 dispersal flight, ovary development, environmental factors 3793
 larvae, foraging behavior, predator-prey interactions, *Acyrthosiphon pisum* 1429.
- Hippodideros speirs***
 flight activity, mechanical properties 1874.
- Hirudo medicinalis***
 electrical stimulation, effects on mechanoreceptors, neurons, body movements 4184
- Hirundo rustica***
 orientation, homing behavior, nesting behavior 4059.
- Histamine***
 effects on aggressive behavior, foot shock, rats 988.
 intracranial chemical stimulation, hippocampus exploratory behavior, open-field behavior, rats 4169.
- Histochemistry***
 brain, physiology, enzymes, *Eptaretus burgeri* 831.

- Histology**,
nerves, olfactory organs, *Lampisilis ventricosa*, *Corbicula fluminea* 814.
- Historical account**,
drug effects, administration rates 2072.
- Hormones**, behavior 3306
- Hoarding behavior**,
aggression, territorial behavior, *Sitta europaea*, *Parus palustris* 2701.
chemical stimuli effects on, *Apis mellifera* 2792.
effects on maternal behavior, cannibalism, hamsters 3570.
foraging behavior, seeds, *Corvidae* 3731.
reinforcement schedules, locomotor activity, hamsters 3943
scatterhoarding, feeding behavior, *Tamias striatus* 1492.
sucrose, 2-heptanone, *Apis mellifera*, *Apis mellifera adansonii* 3673.
- Holothuria mexicana**,
feeding behavior, activity patterns, diurnal variations, Jamaica, Discovery Bay 3662.
- Holothuria thomasi**,
feeding behavior, activity patterns, diurnal variations, Jamaica, Discovery Bay 3662.
- Homalozoon vermiculare**,
growth, predatory behavior, imprinting, diets 265.
- Homarus americanus**,
burrowing behavior, sheltering behavior, substrate preferences, juveniles 2778.
drilling mud, pollution effects, feeding, activity patterns 3767.
neurophysiology, axons, coordination, motor activity, behavior patterns 3135.
prey odors, chemoreception, food preferences, *Modiolus modiolus*, *Mytilus edulis* 2609.
- Hoove range**,
activity patterns, vegetation patterns, rain forests, *Hylobates*, Indonesia 2871.
aggressive behavior, population density, *Citellus pygmaeus* 3474.
breeding, *Ficedula hypoleuca* 2843.
diets, *Carnivora* 2754.
foraging behavior, diets, *Proteles cristatus*, Namibia, Namib Desert 3756.
foraging behavior, *Hylobates klossii* 2369.
habitat selection, breeding, *Anas rubripes* 3534.
habitat utilization, social organization, dominance, territorial behavior, *Uta stansburiana* 1220.
migrations, social organization, *Odocoileus virginianus*, USA, Minnesota 3626.
movements, sex differences, *Enhydra lutris* 4062.
nesting behavior, burrowing behavior, *Marmota flaviventris*, USSR 3823
predator-prey interactions, juveniles, *Odocoileus hemionus*, *Canis latrans*, USA, Colorado 1224.
ranging behavior, seasonal variations, *Ursus americanus* 2854.
scent marking behavior, territorial behavior, *Martes martes* 3480.
seasonal variations, sex differences, *Scus scrofa*, USA, Tennessee 485
social interactions, breeding behavior, burrowing behavior, dispersal, *Gophers* polyphemus, USA, Georgia 510.
social organization, *Cervus elaphus roosevelti* 2583.
spatial distribution, abundance, *Clethrionomys glareolus* 2367.
spatial distribution, food availability effects on, *Tamias striatus* 2366.
spatial distribution, territorial behavior, *Mus musculus*, New Zealand 1225.
territorial behavior, habitat utilization, competition, *Tamias striatus* 1223.
territorial behavior, movements, *Ochotona princeps* 3830.
territorial behavior, radio-tagging, seasonal variations, *Capreolus capreolus* 2365.
territorial behavior, social behavior, energetics, *Anolis* 2348.
territorial behavior, social organization, population density, *Eremias grammica* 3468.
winter, nests, social interactions, intercan pressure, *Picoides borealis* 1222.
- Homeostasis**,
osmoregulation, cooling behavior, *Trichostrogmus colubriformis* 2779.
rats, drug tolerance, role, classical conditioning, rats 2145.
- Homing behavior**,
acoustic stimuli, juveniles, rats 1856.
activity patterns, rhythms, *Ichneumon dispar*, *Chiton stokesii* 744.
age effects on, *Oligocottus maculosus* 465.
aversion learning, rats 1941.
environmental factors, wind, topography, pigeons 663.
ethology, conferences 4500.
food deprivation effects on, rats 1626.
foraging behavior, landmarks, food sources, *Apis mellifera* 3002.
geotaxis, magnetic fields, aquatic organisms, reviews 2990.
migrations, overwintering, *Passeriformes* 3013.
navigation behavior, magnetic fields, pigeons 4055.
navigation behavior, magnetic fields, storms, pigeons 3018.
navigation behavior, olfactory stimuli role, pigeons 4046.
navigation behavior, olfactory stimuli role, pigeons 4047.
neonates, isolation effects on, rats 3879.
orientation, celestial cues, *Eptesicus fuscus* 4064.
orientation, disorientation, magnetic fields, dark, pigeons 662.
orientation, environmental effects, olfaction, pigeons 660.
orientation, environmental factors, olfactory stimuli, Columba 1852.
orientation, magnetic fields, pigeons 4058.
orientation, navigation behavior, olfaction, pigeons 3022.
orientation, navigation behavior, urban environments, pigeons 4056.
orientation, nesting behavior, *Hirundo rustica* 4059.
orientation, olfaction, pigeons 4049.
orientation, olfactory stimuli role, *Tessudo hermanni* 4040.
orientation, *Polistes gallicus* 3003.
orientation, *Rhinopoma microphyllum* 3027.
orientation, sun, ontogeny, pigeons 2909.
orientation, wind, *Polistes gallicus*, Italy 643.
overwintering behavior, site location, *Dendroica palmarum* 659.
performance, carbon monoxide effects on, intrauterine exposure, rats 1608.
stereotyped behavior, *Cataglyphis* 1840.
territorial behavior, ponds, *Notophthalmus viridescens* 2347.
- Hominiidae**,
locomotion, walking, evolution 3857.
- Homosexual behavior**,
body weight effects on, *Palmaricoxa nana* 1239.
sex hormones effects on, females, *Larus occidentalis wymani* 2471.
- Homosexuality**,
deterrents, mating behavior, sex pheromone, *Glossina morsitans*, *Musca domestica* 116.
- Homovanillic acid**,
effects on locomotor activity, orienting response, rats 2088.
- Hopllostocella deceptivus**,
predator-prey interactions, *Pseudophasia includens* 293.
- Horizontal distribution**,
activity patterns, diel variations, *Xiphias gladius* 1595.
distance, territorial behavior, song, vocalization behavior, *Luscinia megarhynchos* 232.
flight activity, streams, *Eptesicus fuscus*, *Myotis lucifugus* 4071.
migrations, diurnal variations, zooplankton, *Mastigias*, Caroline Is., Palau 627.
seasonal variations, diurnal variations, environmental factors, *Acipenser transmontanus*, USA, Columbia R. 470.
swimming behavior, water flow velocity, juveniles, *Salmo trutta*, *Salmo salar* 469.
- Hormone release**,
drug effects, fluorotryptophan, sleep inhibition, *Rattus rattus* 2081.
pituitary adrenal gland, weaning, open-field behavior, avoidance behavior, juveniles, pigs 1348.
thermoregulation, central nervous system, *Rattus rattus* 1042.
- Hormones**,
activity patterns, hibernation, *Nyctius lucifugus lucifugus* 2176.
aggressive behavior, scent marking behavior, sexual behavior, *Meriones unguiculatus* 4404.
analgesia mediation, shock, classical conditioning, opioids, rats 4160.
androgens, courtship, males, *Streptopelia risoria* 1035.
behavior, historical account 3306.
carbamol, effects on sexual behavior, rats 3146.
catecholamines, effects on memory, avoidance learning, rats 2989.
communication, social interactions, reproductive behavior, conferences 4499.
corticosterone, ACTH, lesions, raphe nuclei, circadian rhythms, locomotor activity, rats 904.
corticosterone, stress, plasma level, tissues distribution, rats 1119.
corticotropine, effects on maze learning, rats 2973.
courtship behavior effects on, *Streptopelia risoria* 1301.
drug effects, tetrahydrocannabinol, females, environmental effects, males, mice 2130.
effects on activity patterns, sex differences, rats 1058.
effects on aggression, mice 64.
effects on aggressive behavior, social environment, isolation, mice 1196.
effects on agonistic behavior, sex differences, *Macaca mulatta* 873.
effects on arousal, stereotyped behavior, rats 1002.
effects on females mating behavior, *Rana pipiens* 150.
effects on food intake 932.
effects on lordosis behavior, rats 1055.
effects on lordosis behavior, rats, mice 2177.
effects on reproductive behavior, seasonal variations, *Merpeses auro-punctatus* 1057.
effects on sexual behavior development, *Mesocricetus auratus* 186.
effects on song, females, *Taeniopygia guttata castaneotis* 3415.
effects on spatial distribution, intraspecific relationships, *Saimiri sciureus* 1227.
effects on yawning behavior, guinea pigs 1056.
ejaculation, naloxone effects on, rats 2175.
endocrine system, sexual behavior effects on, rats 4411.
estrus cycle, effects on motivation, motor activity, rats 1047.
feeding behavior, cholecystokinin, bombesin, pancreatic polypeptide, mice 385.
20-hydroxyecdysone, effects on host searching behavior, oviposition, *Aedes aegypti* 3307.
levels, stress schedule effects on, rats 1116.
metabolism, social behavior, reviews 4398.
modulation, social interactions, sexual behavior, aggressive behavior, males 4396.
nerve transmission, memory, neurotransmitters 604.
neuroendocrine system, behavior modulation, copulation, vocalization behavior, reviews 4397.
nursing, weaning, *Mesocricetus auratus* 1349.
physiology, effects on satiety 254.
plasma corticosterone, visual deprivation, polypeptides, stress, chickens 1120.
regulation, reproductive behavior, reviews, *Teleostei* 4399.
seasonal variations, behavior, *Anser indicus*, Germany, Fed. Rep., Seeviesen 4400.
sexual behavior effects on, males, rats 2178.
sexual maturity, reproductive behavior, *Saimiri* 195.
social behavior, aggressive behavior, *Saimiri* 3330.
social interactions effects on, *Streptopelia risoria* 1365.
therapy, sexual behavior, progesterin 3340.
thyrotropin-releasing hormone, intracranial chemical stimulation, hippocampus (dorsomedial), arousal, physical activity, *Citellus lateralis* 2063.
vocalization behavior, ultrasound, social interactions, sexual reproduction, *Rodentia* 4403.
yawning behavior, neurons, mechanisms, drug effects, physostigmine, pilocarpine, rats 848.
- Horses**,
agonistic behavior, social interactions, attraction, statistical analysis 2200.
4-aminopyridine effects on comfort behavior, locomotor activity, excitation 2093.
avoidance behavior, interspecific relationships, *Tabanidae* 2208.
ethology, senses 1099.
feeding behavior, grazing, locomotor activity, environment recognition 3347.
females, testosterone plasma levels, aggressive behavior 4459.
fetal populations, infanticide, aggressive behavior 3450.
fertility, training level 4450.
locomotion, patterns, gait, energy conservation 697.
maternal behavior 204.
methylphenidate acid effects on arousal 3276.
offspring recognition, mother offspring interactions, sensory stimuli 2548.
pain effects on walking, locomotor activity 4454.
scent marking behavior, reproductive behavior 2507.
social organization, reproductive behavior, aggressive behavior 2586.
stress, transport, environmental effects 1121.
- Host plants**,
Asclepias syriaca predation, food organisms biomass, *Misumena vatia* 273.
chemical perception, egg laying, *Acrotophis assectella* 133.
colonization, aggregation, sex pheromone biosynthesis, *Ips paraconfusus* 1149.
edge effect, oviposition, *Anthracis cardamines* 2392.
effects on oviposition mating behavior, *Dioryctria amatella* 1258.
extracts, effects on feeding behavior, *Dendroctonus frontalis*, *Pinus taeda* 1546.
feeding behavior deterrents, *Pristiphora erichsoni* 313.
feeding behavior, habitat, *Stylommatophora* 2617.
feeding behavior, *Stephanitis pyrioides* 1432.
flight activity, settling behavior, *Rhopalosiphum padi* 1845.

Host plants, (continued)

- foraging behavior, food sources, niche pattern, *Bombus terrestris*, *Bombus lapidarius* 2655
- genotypes, oviposition, *Lygus hesperus* 1249
- host preferences, feeding behavior, oviposition, dispersion, *Scaphytopius acutus*, *Prunus persica*, *Trifolium pratense* 294
- Ipomopsis aggregata* foraging behavior optimization *Trochilidae* 2691
- leaves, morphology, effects on feeding behavior *Adalia bipunctata* 264
- males, feeding behavior, *Heliconium*, *Gabonia gabriela* 2643
- Medicago: effects on activity patterns *Hypera postica* 1541
- nectar: foraging behavior optimization *Lamertella formosa*, *Meliphagidae* 2692
- odors, orientation *Ptila rosae*, *Daucus carota* 4103
- olfactory stimuli: effects on phototaxis suppression *Bombyx mori* 1910
- orientation, chemotaxis, sense organs, larvae, *Hyliemya antiqua* 644
- oviposition, feeding behavior, *Asteroglossa vocata* 2784
- oviposition, habitat preferences, *Euphydrya* 2421
- oviposition, host searching behavior, host preferences, *Colias philodice* emphyte 2441
- oviposition, site selection, *Ornus insidiosus*, *Nabis roseipennis*, *Nabis americoferus* 3520
- settling behavior, locomotor activity, *Aphis citricola*, *ovatus malivorus* 453
- substrate preferences, oviposition, *Cajanus cajan*, *Melanogaster obscura* 2435
- substrate preferences, oviposition, *Callosobruchus chinensis*, *Callosobruchus maculatus* 3503
- Host preferences,**
- chemical stimuli, *Allium cepa*, chemotaxis, *Hyliemya antiqua* 634
- chemotaxis, *Allium cepa*, microorganisms, volatiles, *Hyliemya antiqua*, *Fannia scalaris*, *voxygaster* 735
- host-parasite interactions, oviposition, parasitoids *Poecilostictus citharus*, *Bupalus piniarius*, Netherlands 2403
- oviposition, host searching behavior, host plants, *Colias philodice* emphyte 2441
- vectors, vector-borne diseases, host plants, feeding behavior, oviposition, dispersion, abundance, spatial distribution, orchards, food preferences, *Scaphytopius acutus*, *Prunus persica*, *Trifolium pratense* 294
- Host searching behavior,**
- activity patterns, Medicago: host plants effects on, *Hypera postica* 1541
- atmospheric conditions effects on, gases, *Ornithonyssus* 1518
- egg laying, population density, hosts, *Neodiprion sertifer*, *Lophyproctus luteator* 2428
- factors affecting, light, temperature, *Neoplectana carpocapsae* 3776
- feeding behavior, olfactory stimuli effects on, host plants, *Dendroctonus frontalis*, *Pinus taeda* 1546
- feeding behavior, visual stimuli, olfaction 318
- flight activity, *Myzus persicae* 1837
- hormones, 20-hydroxyecdysone, *Aedes aegypti* 3307
- host plants, odor, olfaction, *Ptila rosae*, *Daucus carota* 4103
- host plants, oviposition, host preferences, *Colias philodice* emphyte 2441
- inhibition, vitellogenesis effects on, *Aedes aegypti* 1440
- kaureones effects on, *Trichogramma pretiosum*, *Heliothis zea* 18
- oviposition, egg effect, *Anthochorus cardamines* 2392
- oviposition, parasitoids, *Amutis hesperidum*, *Encarsia opulenta*, *Aleuracanthus vagans* 1556
- parasites, *Para-spironyx africanus* 3795
- parasitoids, chemical stimuli, *Musca domestica*, *Muscidifurax raptor*, *Muscidifurax raptor*, *Spalangia cameroni*, *Spalangia endius* 1784
- parasitoids, host-parasite interactions, *Euphydrya phaeton*, *Apanteles euphydryidis* 3783
- parasitoids, hosts defense mechanisms, *Apanteles euphydryidis*, *Euphydrya phaeton* 2406
- parasitoids, olfactory stimuli, hosts, *Sitona hispidulus*, *Patasson lameerei* 3496
- parasitoids, oviposition, *Ascogaster reticulatus* 3492
- parasitoids, oviposition, kaureones, eggs, *Adoxophyes*, *Ascogaster reticulatus* 3495
- population density effects on, competition, parasitoids, *Venturia canescens* 1556
- temperature effects on, host plants, *Cydia pomonella* 3786
- visual stimuli, olfaction, *Glossina* 319
- Host selection,**
- exploratory behavior, parasitoids, *Anisopleromalus calandreae*, *Callosobruchus maculatus* 3361
- host plants, oviposition, distribution, eggs, *Oscinella trit* 3497
- oviposition, competition, population density, parasites, *Biotres longicaudatus* 1545
- oviposition, fecundity, parasitoids, *Euplectrus kuwanae* 1273
- Host specificity,**
- oviposition, parasites, *Dryinidae*, *Dichoptera hyalinata*, *Eurybrachys tomentosa* 117
- Host-parasite interactions,**
- feeding behavior, *Leguminosae*, *Heliothis zea* 2627
- host searching behavior, parasitoids, *Euphydrya phaeton*, *Apanteles euphydryidis* 3783
- interspecific relationships, defensive behavior, *Molothrus ater*, *Dendroica petechia* 477
- migrations, survival, parasites, immunity, *Ancylostoma caninum*, mice 1125
- oviposition, host preferences, parasitoids, *Poecilostictus citharus*, *Bupalus piniarius*, Netherlands 2403
- Hosts,**
- attractants, visual evoked response, visual stimuli, *Mansonella*, *Anopheles ziemanni* 1881
- behavior, parasitoids effects on, natural selection, survival 2811
- Boophilus microplus*, parasites, *Babesia bovis*, effects on, oviposition, fecundity 1245
- broad care, parasites rearing, *Cuculus canorus* 2533
- chemotaxis, life cycle, development, population dynamics, *Simuliidae*, *Mammalia* 645
- coevolution, nests, parasites, *Cuculus canorus*, *Phoenicurus phoenicurus* 3814
- defense mechanisms, parasitoids, host searching behavior, *Apanteles euphydryidis*, *Euphydrya phaeton* 2800
- discrimination, oviposition experience, *Pieris rapae crucivara*, *Apanteles glomeratus* 3504
- feeding behavior, *Buphagus erythrorhynchus*, *Ungulata* 2717
- odors, olfaction, parasites, *Hymenoptera*, *Dendroctonus frontalis* 2263
- olfactory stimuli, host searching behavior, parasitoids, *Sitona hispidulus*, *Patasson lameerei* 3496
- parasitoids effects on behavior, survival, *Euphydrya phaeton* 451
- parasitoids, host searching behavior, oviposition, *Amutis hesperidum*, *Encarsia*

Hosts, (continued)

- opulenta*, *Aleuracanthus woglumi* 1550
- population density, host searching behavior, *Neodiprion sertifer*, *Lophyproctus luteator* 2428
- Housing,**
- effects on aggression, weaning, pigs 2217
- effects on open field behavior, isolation stress, mice 1622
- females, effects on males aggression, mice 1198
- preferences, social hierarchy, cattle 2219
- social environment, stress, effects on escape behavior, mice 2237
- Huddling,**
- early experience, locomotor activity, emotional behavior, rats 3880
- sex, preferences, social behavior, juveniles, rats, *Rattus norvegicus* 1378
- sheltering behavior, storms, *Pluvialis apricaria* 2846
- siblings recognition, *Acomys cahirinus* 1373
- thermoregulatory behavior, energetics, *Peromyscus leucopus* 3828
- Human impact,**
- disturbance, activity patterns, *Ovis canadensis canadensis* 2863
- Humidity,**
- effects on alarm pheromone response, *Apis mellifera* 1129
- environmental effects, hygrotales, *Cryptotermes* 2794
- environmental effects, resting behavior, diurnal variations, physical activity, *Diptera* 2787
- predatory behavior, prey capture, *Notiophilus biguttatus* 2640
- temperature effects, food intake, feeding behavior, chickens, egg laying 1597
- Hunger,**
- aggressive behavior, predation, defense, development, juveniles, cats 73
- conditioned response, sign-tracking behavior, classical conditioning, rats 2943
- deprivation, reinforcement, cues, response, incentive control, rats 1703
- effects on chemoreception, feeding behavior, *Crotalus viridis*, *Crotalus enyo* 2659
- effects on feeding behavior, juveniles, *Oncorhynchus gorbuscha* 339
- effects on imprinting, reinforcement, rats 1517
- effects on sound production (biological), *Glossina morsitans* 5
- foraging behavior, predator-prey interactions, *Coccinella californica*, *Acyrthosiphon pisum* 1430
- lesions, amygdala, rats 2036
- Husbandry,**
- breeding, *Saguinus oedipus oedipus* 1341
- domestication, *Djalokoe sheep* 3349
- Huso huso,**
- feeding behavior, pancreas 334
- Hyena brunnea,**
- anti-predator behavior, death shamming, *Panthera leo* 3832
- Hyena hyaena,**
- feeding behavior, bone collecting behavior, Israel 2764
- Hyalomma dromedarii,**
- chemical communication, pheromones, chemoreception 2279
- Hyalophora cecropia,**
- cocoons construction, silk 3356
- Hybrids,**
- genes, courtship, mating behavior, *Drosophila melanogaster*, *Drosophila simulans* 1582
- genetics, conditioning, phenotypes, central excitatory state, *Phormia regina* 2881
- unbreeding, exploratory behavior, novelty, mice 4465
- mating behavior, auditory communication, isolation, *Rana pipiens*, *Rana blairi* 31
- populations, song variants, *Chorthippus mollis* 1140
- Hydergine,**
- effects on intracranial self-stimulation, motor activity, stereotyped behavior, rats 3295
- Hydra,**
- feeding behavior, starvation effects on threshold 276
- Hydra japonica,**
- feeding behavior, chemical stimuli, amino acids, assays 3655
- Hydranassa tricolor,**
- flocking behavior, food sources 356
- Hydroids,**
- food selection, predation, *Tadorna tadorna*, British Isles, Scotland 153
- seasonal variations, diets, predation, *Tadorna tadorna* 352
- Hydrocarbons,**
- avoidance behavior, migrations, *Oncorhynchus* 2824
- Hydrochoerus hydrochaeris,**
- interspecific relationships, feeding behavior, Aves 2601
- water availability effects on social behavior, activity patterns 2580
- Hydrocotyle,**
- plasma levels, mother-offspring interactions effects on, *Macaca mulatta* 210
- plasma levels, mother-offspring interactions, separation effects on, infants, *Macaca mulatta* 209
- Hydrodynamics,**
- locomotion, *Amoeba proteus* 4066
- Hydropyche cockerelli,**
- phototaxis, dispersal, larvae, USA, Columbia R 3004
- phototaxis, larvae 4078
- 7-Hydroxy-fluphenazine,**
- metabolites, drug effects, open field behavior, hyperactivity, rats, mice 961
- 7-Hydroxybutyrate,**
- discrimination learning, drugs, rats 3278
- 6-Hydroxydopamine,**
- brain lesions, effects on stimulants, locomotor activity, rats 890
- cognitive ability, motor activity ontogeny, social environment, rearing, rats 3889
- drug effects, avoidance learning, latency, catecholamines, rats 1734
- drug effects, bromocriptine, escape behavior, locomotor activity, juveniles, rats 2167
- drug effects, thalamus, lesions, activity patterns, rats 998
- effects on catecholamines, activity patterns, rats 3174
- effects on conspecific odors preferences, males, rats 929
- effects on noradrenaline, levels, brain, motor activity, monkeys 3179
- hyperactivity, social environment, neonates, rats 3170
- intracranial chemical stimulation, drug effects, ventricles (cerebral), aggressive behavior, cats 997
- intraneural exposure, motor activity, rats 4170
- lesions, caudate putamen, effects on food intake, water intake, rats 3195
- lesions, locus coeruleus, effects on startle response, rats 3200
- lesions, substantia nigra, intracranial chemical stimulation, AMPA, rats 795

- 6-Hydroxydopamine, (continued)**
neurotransmitters, hyperactivity, cortex (frontal), asymmetry, rats 800.
- 26-Hydroxyecdysone,**
hormones, effects on host searching behavior, oviposition, *Aedes aegypti* 3307.
- 2-Hydroxyestradiol,**
effects on lordosis behavior, estradiol blocking, rats 4409
lordosis, ovary, ablation, rats 1048.
- 2-Hydroxystroene,**
effects on lordosis behavior, estradiol blocking, rats 4409
- 5-Hydroxytryptamine,**
avoidance learning, rats 4389
brain, drug effects, tryptophan, rats 2154.
p-chlorophenylalanine effects on, brain, aggression, rats 2091
depletion, medial forebrain bundle lesions, neurotoxins, avoidance behavior, rats 884
drug effects, dopamine stereotyped behavior, rats 947
drug effects, food intake, taste aversion, rats 2141
drug effects, stereotyped behavior, rats 948
drugs, release factors, neurochemistry, activity patterns, rats 3178
effects on activity patterns, rats 4200.
effects on drinking behavior, alcohol, mechanisms, rats 4208
epilepsy, ESB, lesions, hippocampus, paroxysmal activity, rats 1996.
hypothalamus, feeding behavior, food intake inhibition, rats 1966
intracranial chemical stimulation, inhibition, aggressive behavior, shock, locomotor activity, mice 847
lesions, amygdala, social behavior, aggressive behavior, rats 895
levels, locomotor activity, rats 4192.
metabolism, interference, drug self-administration modification, levorphanol, rats 4168
metabolism, tryptophan deprivation, effects on sleep circadian rhythms, rats 3126
metabolism, valproic acid sensitivity, isolation effects on, rats 4357
neurochemistry, apomorphine, activity patterns, rats 3271.
neurons, electrophysiological recording, globus pallidus, sleep and wakefulness, rats 4143
release factors, neurochemistry, activity patterns, rats 3145
tryptophan, biochemistry, blood, social behavior, *Ceropithecus aethiops* sabaeus 807.
- 5-Hydroxytryptamine receptors,**
hallucinogens effects on appetitive conditioning, rats 4360.
mediation, quipazine effects on locomotor activity, rats 343.
- 5-Hydroxytryptophan,**
drug effects, walking, mice 979.
- 5-Hydroxytryptophan,**
amphetamine, synocarb, avoidance behavior, rats 4382.
effects on motor activity, aging, *Caenorhabditis elegans* 4185.
intracranial chemical stimulation, neurotransmitters, sensitivity behavior, rats 792.
- Hydrozoa,**
feeding behavior, digestion, nutrition 260.
- Hydrurga leptonyx,**
parental behavior, vocalization behavior, underwater communications, ice floes, Antarctica Coast 1176
- Hyleae,**
eggs, effects on maternal behavior, *Labidura riparia* 137.
- Hygophum benoitii,**
diets, feeding behavior, stranding 3695.
- Hypogastria,**
environmental effects, humidity, *Cryptotermes* 2794
- Hyla arborea savignyi,**
vocalization behavior, mating behavior, males 2283.
- Hyla cinerea,**
feeding behavior, food preferences 3680
mating behavior, vocalization behavior 2448
- Hyla crucifer,**
mating behavior, mate selection, body size 2445.
- Hyla ebraccata,**
vocalization behavior, social behavior, spatial distribution 32.
- Hyla versicolor,**
food organisms, palatability, anti-predator behavior, *Blarina brevicauda* 2821
mating behavior, mate selection, body size 2445.
- Hylemya,**
food attractants attractancy, sex differences 11.
parasites, oviposition deterrents, hosts plants 112.
- Hylemya antiqua,**
chemotaxis, *Allium* cepa, microorganisms, volatiles, synergism 638
food attractants attractancy, sex differences 11.
mating behavior, frequency 3507.
orientation, chemotaxis, anemotaxis, olfactory discrimination, *Allium* cepa 62.
oviposition attractancy, dipropyl disulfide, EAG responses, *Hylemya antiqua* 1486.
oviposition, deterrents, plant extracts, *Thuja plicata* 2638.
oviposition stimulation, microorganisms effects on 129.
sense organs, larvae, chemotaxis, host plants orientation 644.
- Hylemya platura,**
food attractants attractancy, sex differences 11.
- Hylobates,**
home range, activity patterns, vegetation patterns, rain forests, Indonesia 2871
- Hylobates klossi,**
families, parental behavior, altruism, territory 211.
feeding behavior, diets 2767.
home range, foraging behavior 2369.
- Hylotrupes bajulus,**
oviposition, fecundity, mating behavior 1283.
- Hymenaidion sanguinea,**
orientation, geotaxis, larvae 3011.
- Hymenoptera,**
colonies, population regulation, cannibalism, queens 220.
comb construction, sheltering behavior 452.
discrimination learning, color 2960.
foraging behavior, flowers, prairies, USA, Wyoming 1441.
parasites, olfaction, odors hosts, *Dendroctonus frontalis* 2263.
- Hypera postica,**
activity patterns, host searching behavior, host plants effects on, *Medicago* 1541
flight activity, sensory stimuli 4067
- Hyperactivity,**
anidepressants, social environment, isolation, effects on, rats 523
attenuation, amphetamine effects on, rats 3288.
cortex (frontal), asymmetry, neurotransmitters, 6-hydroxydopamine, rats 800.
drug effects, metabolites, fluphenazine, 7-hydroxy-fluphenazine, fluphenazine-sulfoxide, rats, mice 961.
drugs, lithium, amphetamine, inducers, rats 994.
6-hydroxydopamine, social environment, neonates, rats 3170.
methadone, heroin, intrauterine exposure, effects on, laboratory animals 4276
olfactory bulb lesions effects on, mice 74
opioids effects on, rats 3284.
swimming, diurnal variations, toxicity, pollution effects, DDT, *Platichthys flesus*, Baltic 511.
tranlycypromine, effects on, reserpine, rats 1004.
- Hyperolius,**
interspecific relationships, sympatric populations, auditory communication, auditory discrimination, mating behavior 1153.
- Hyperolius narmatus,**
calling behavior, vocalization behavior, mate selection 1155.
- Hyperphagia,**
activity patterns, stress tail-pinch effects on, rats 3367.
hypothalamus (medial) lesions, insulin, rats 4155
hypothalamus (medial) lesions, atropine effects on, rats 2042
neurophysiology, naloxone effects on, rats 2114.
pheromone emission, maternal pheromone, lesions, hypothalamus (ventromedial), rats 2025
social behavior, migrations, *Branta canadensis*, USA, Minnesota 2571.
vagus nerve ablation effects on, rats 2034.
- Hyperphenylalaninemia,**
amino acids, diets, effects on maze learning, rats 1954.
- Hyperprolactinemia,**
lordosis behavior inhibition, prolactin, rats 1339.
- Hyperreactivity,**
hypothalamus (medial) lesions effects on, social environment role, rats 2028.
- Hyperstriatum,**
lesions, biochemistry, imprinting, chickens 835.
- Hypertension,**
angiotensin effects on drinking behavior, rats 4202.
arousal, water deprivation, operant conditioning, rats 1696.
aversion learning, heart rate, rats 1792.
avoidance behavior, escape behavior, rats 1957.
avoidance learning, rats 1745.
genetic control, early experience, handling effects on, rats 3851.
- Hyperthermia,**
CS, UCS, stress, rats 4482.
memory, amnesia, rats 609.
- Hyphantaria cunea,**
mating behavior, flight activity, sex pheromone 1284.
- Hypodipsia,**
lesions, water, intake, rats, thirst 402.
- Hypopomus,**
electric perception, electric organs 3078
- Hypothalamus,**
ablation, amygdala, osmoregulation, behavior, sodium chloride, rats 794.
brain, aggressive behavior, neurophysiology, rats 851.
choline acetyltransferase activity, isolation effects on, *Menones unguiculatus* 1918.
coordination, motor activity, conation 3131.
cytosol, receptors, progesterin, rats 1335
5,7-dihydroxytryptamine lesions, effects on muricide, rats 4246.
electrical stimulation, appetitive conditioning, reinforcement dissociation, rats 918.
electrical stimulation, self-stimulation, effects on hibernation, *Citellus tridecemlineatus* 923.
electrical stimulation, sleep, effects on, respiration, rats 921.
ESB, aggression, mediation, choline, muscarine, rats 3214.
ESB, intracranial self-stimulation, operant conditioning, rats 4255.
ESB, self-administration, escape behavior, aversion-amelioration, rats 4263.
5-hydroxytryptamine, feeding behavior, food intake inhibition, rats 1966.
intracranial chemical stimulation, bombesin, effects on food intake, rats 4174.
intracranial chemical stimulation, effects on maze learning, rats 597.
intracranial chemical stimulation, glutamate, effects on defensive behavior, rats 4274.
intracranial self-stimulation, approach behavior, escape behavior, rats 2051
intracranial self-stimulation, drug effects, rats 3220.
intracranial self-stimulation, food deprivation effects on, rats 4257.
intracranial self-stimulation, memory, sensory reinforcement, rats 3215.
lesions, drinking behavior, rats 4195.
lesions, effects on aphagia, masseteric reflex, rats 4230.
lesions, effects on food intake, rats 4242.
lesions, estrogens, feeding behavior, body weight, rats 900.
lesions, hyperphagia, insulin, rats 4155.
lesions, hyperphagia, rats 2034.
lesions, predatory behavior, ESB, midbrain, rats 3188.
midbrain interaction, effects on aggression, rats 66.
neurochemistry, catecholamine, schedule-induced behavior, *Rattus rattus* 841
neurons, electrophysiological recording, arousal, rats, rabbits 3167.
neurons, electrophysiological recording, self-stimulation, rats 4157.
neurons, mediation, biting behavior, cats 4197.
neurophysiology, avoidance behavior, emotional behavior, conditioned response, rats 3160.
noradrenaline depletion, maternal behavior, rats 4193.
pargyline, inhibition, inhibition, amine oxidase (flavin-containing), lordosis behavior, rats 4406
regulation, food intake 4180.
regulation, food intake, obesity, rats 4189.
role, aggressive behavior, cats 4270.
role, feeding behavior, food intake, rats 1999.
testosterone implants, lordosis behavior, females, hamsters 1053.
- Hypothalamus (dorsomedial),**
lesions, diets, nutrition, juveniles, rats 892.
lesions, effects on, food intake, body weight, rats 891.
lesions, effects on olfactory discrimination learning, rats 2045
- Hypothalamus (lateral),**
electrophysiological recording, role, feeding behavior, monkeys 872.
ESB, effects on feeding behavior, emotional behavior, rats 4463.

Hypothalamus (lateral), (continued)

- ESB, visual discrimination learning, reversal learning, reinforcement, rats 3210
 intracranial chemical stimulation, naloxone, drinking, rats 2065
 intracranial self-stimulation, sex differences, rats 2047
 stimuli, operant response maintenance, drugs effects on, rats 1018

Hypothalamus (medial),

- ESB, discrimination, rats 4261
 lesions, effects on muncide, gentling, rats 4247
 lesions on obesity, hyperactivity, social environment role, rats 2028
 lesions, hyperphagia, atropine effects on, rats 2042

Hypothalamus (ventromedial),

- ESB, vasopressin peptides, defensive behavior, rabbits 2062
 intracranial chemical stimulation, morphine, feeding, norepinephrine, rats 2064
 lesions effects on sexual receptivity, rats 1334
 lesions, hyperphagia, pheromone emission, maternal pheromone, rats 2025
 testosterone implants, lordosis behavior, females, hamsters 1053

Hypothermia,

- drug effects, p-chloroamphetamine, rats 2153
 effects on memory, avoidance learning, rats 1820
 fear conditioning, amnesia, rats 4011

Hypoxia,

- chemoreception, gases, sleep and wakefulness, denervation, carotid sinus nerve, rats 4147
 dopamine receptors sensitivity, effects on avoidance learning performance, rats 1820
 open-field behavior, social behavior, external stimuli, rats 1572
 prenatal, conditioned response, reflexes, rats 1674

Hypoblenius sordidus,

- reproductive behavior, Chile Coast 158

Ibotenic acid,

- effects on activity patterns, rats 4331

Icterus nebulosus,

- competition, food availability, social behavior, dominance 2373

Identification,

- conspecifics, song, *Agelaius phoeniceus* 2307
 matching-to-sample, discrimination learning, pigeons 587

Iguana iguana,

- interspecific relationships, nesting behavior, *Crocodylus acutus* 3859

Illumination,

- discrimination learning, matching-to-sample, pigeons 1779

- interval interval, performance matching-to-sample, pigeons 607

Ilyanassa obsoleta,

- feeding behavior, diets 1409

- feeding behavior, estuarine organisms 270

Impiramine,

- chronic administration, effects on clonidine stereotyped behavior, rats 4333
 effects on locomotor activity, emotional behavior, social interactions, dogs 1014

Intrauterine exposure,

- effects on activity patterns, rats 3237

Immersion,

- water, grooming, rats 3364

Immigration,

- colonization, light effects, crop protection barriers, behavior, *Myzus persicae* 1410

Immobilization,

- attention, rhythms, cortex, thalamus, cats 862

- motor activity, learning behavior, memory, rats 2988

Shock effects on, rats 2006**Immune response (cell-mediated),**

- infants separation effects on, monkeys 527

Immunity,

- host-parasite interactions, migrations, survival, parasites, *Ancylostoma caninum*, mice 1125

Immunization,

- long-term analgesia, shock, escape learning, rats 4121

Immunological tolerance,

- corticosterone, learning behavior, rats 4370

Imparipes bicinctus,

- mating behavior, copulation 2433

Implants,

- estradiol, sexual behavior inhibition, progesterone, ovary, ablation, rats 1050

- sex hormones, estradiol, sexual behavior, ovary, ablation, rats 1051

- testosterone, hypothalamus, lordosis behavior, females, hamsters 1053

- testosterone, lesions, nucleus intercollicularis, courtship, *Streptopelia risoria* 1317

Imprinting,

- attachment, queens, *Vespa orientalis* 216

- auditory stimuli, tonic immobility, juveniles, chickens 2242

- behavior ontogeny, reviews 3872

- diets, predatory behavior, growth, *Homalozoon vermiculare* 265

- external stimuli, ontogeny, feeding behavior, juveniles, *Alcidia* 1600

- memory, cues, rats 1822

- olfactory stimuli, males effects on aggressive behavior, juveniles, rats 1202

- prenatal experience, auditory communication, embryos, *Anas* 2907

- reinforcement, satiety, hunger, rats 1517

- reinforcement schedule, fixed ratio schedule, fixed interval schedule, water, social bonds, juveniles, ducks 1672

- reproductive behavior, migrations, *Caretta caretta* 2906

- social bonds, juveniles, chickens 1367

- Storage, biochemistry, anatomy, correlation, chickens 835

- visual preferences, maternal effects, calling behavior, juveniles, ducks 1601

Inachis io,

- food organisms, predation, feeding behavior, *Muscicapa striata* 2710

Inbreeding,

- albinism, genes, cognitive ability, locomotor activity, mice 1588

- effects on maternal behavior, nesting behavior, mice 1354

- evolution altruism, kin selection 502

- evolutionary genetics, natural selection, interspecific relationships 1580

- hybrid exploratory behavior, novelty, mice 4465

- interaction, natural selection, evolutionary genetics, interspecific relationships 1579

- mating behavior, avoidance behavior, *Meriones unguiculatus* 2497

- reproductive behavior, population genetics, fitness, *Parus major* 170

Inbreeding, (continued)

- selection, effects on mating behavior, *Drosophila melanogaster* 2878

- social organization, aggressive behavior, *Mus musculus* 3630

- strains, drug effects, naloxone, discrimination learning, mice 996

Incentive contrast,

- deprivation, hunger, reinforcement, cues, rats 1703

Incompatibility,

- nests, recognition pheromones, colonial characteristics, *Pseudomymex ferruginea* 3380

Incubation,

- paternal behavior, cuckoldry defense mechanisms, *Sturnus vulgaris* 1314

Incubation behavior,

- brood care, survival, Aves 202

- nesting behavior, nest building, *Charadrius morinellus* 3553

- sex hormones effects on, *Coturnix coturnix japonica* 2536

Indicators,

- behavior, trace fossils, paleoecology, marine organisms 3852

Indonesia,

- home range, activity patterns, vegetation patterns, rain forests, *Hylobates* 2871

Indri indri,

- vocalization behavior, diel variations 2314

Inducers,

- drug effects, serotonin, predation mice, reversal learning, rats 2083

- drugs, apomorphine, aggressive behavior, stress, rats 1000

- drugs, desmethylinpramine, aggressive behavior, fighting, antidepressants, rats 993

- hyperactivity, drugs, lithium, amphetamine, rats 994

- serotonin, neurochemistry, aggressive behavior, mice killing, rats 865

- sleep, prostaglandins, brain, chickens 925

- stereotyped behavior, food deprivation, apomorphine drugs, rats 992

Induction,

- alcohol, locomotor activity, drugs effects on, mice 967

Infanticide,

- aggressive behavior, parental behavior, sex hormones, mice 68

- cannibalism, maternal behavior, gerbils 1350

- communal breeding, breeding behavior, *Aphelocoma ultramarina*, *Crotaphaga ani* 167

- feral populations, horses 3450

- males fitness, social rank, *Macaca mulatta* 1214

- maternal behavior, sex hormones, offspring, rats 1351

- reproductive strategy, breeding success, mathematical models, *Presbytis* 2509

- sexual behavior, maternal behavior, aggression, sociological aspects, *Macaca fascicularis* 194

Infants,

- activity patterns, mother-offspring interactions, man 212

- adoption, parental behavior, *Alouatta palliata* 3605

- behavior assessment methodology, man 4441

- cannibalism, feeding behavior, *Pan troglodytes* 3765

- hydrocortisone plasma levels, distress, mother-offspring interactions, separation, *Macaca mulatta* 209

- locomotion, ontogeny, walking 1877

- memory, forgetting, proactive interference, ontogeny, rats 1823

- ontogeny, mother-offspring interactions, social interactions, *Macaca silenus* 3890

- separation, effects on immune response (cell-mediated), monkeys 527

- sleep, EEG, development 777

- social interactions, adults, males, *Papio cynocephalus* 1389

- stereotyped behavior, activity patterns, rhythms 1627

Information content,

- stimuli, conditioned reinforcement, pigeons 3913

Information theory,

- trophallaxis, communication, antennae, *Myrmica rubra* 2275

Ingestion,

- feeding behavior, food availability, optimization, models 253

- food organisms, foraging behavior, predators, *Micropterus salmoides*, *Lepomis cyanellus*, *Lepomis macrochirus* 3691

- organic matter, sediments, detritus feeders, estimation methodology, *Nucula annulata* 2613

Inheritance,

- aggressive behavior, dominance, *Lagopus lagopus scoticus* 2326

- agnotic behavior, males, mice 2339

- discrimination learning, mice 2885

- orientation, flight activity, littoral zone, *Talitridae* 2995

- taste preferences, chickens 3847

Inhibition,

- aggressive behavior, drugs, buspirone, *Macaca mulatta* 1031

- attack, defense, forebrain lesions, literature reviews, rats 882

- courtship, sex pheromone mutants, *Drosophila melanogaster* 142

- estrogens, effects on lordosis behavior, rats 1055

- food consumption, brain centers, *Labidura riparia* 290

- food intake, feeding behavior, cholecystokinin, peptides, sheep 394

- food intake, feeding behavior, 5-hydroxytryptamine, hypothalamus, rats 1966

- food searching behavior, vitellogenesis effects on, *Aedes aegypti* 1440

- lordosis behavior, prolactin, hyperprolactinemia, rats 1339

- memory, cycloheximide effects on, saccharin taste aversion learning, rats 4153

- memory, retroactive inhibition, spatial discrimination learning, maze learning, rats 1818

- motor activity neurons, habituation, defensive behavior, *Astacus* 823

- protein biosynthesis, short term memory, avoidance learning, mice 1828

- reversal learning, reinforcement schedules, pigeons 1801

- septum activity, appetitive conditioning, classical conditioning, rats 839

- sex pheromone chemical communication, (Z)-9-alkenols effects on, *Spodoptera litura* 29

- sexual behavior, progesterone, estradiol, ovary, ablation, rats 1050

- thermoregulatory behavior, maintenance, control, *Rattus rattus* 737

- transfer learning, man 1798

Insecta,

- chemical communication, pheromones 2259

- colonial characteristics, social behavior, genetic relationship, measuring techniques 3838

- competitive behavior, social behavior, conferences 2248

- competitiveness, male sterility, statistical analysis, variance 2194

- diets, feeding behavior, *Tadarida aegyptiaca thomasi* 2744

- ethology, role, population dynamics models 2785

- feeding behavior, filter feeders 289

- flight activity, olfactory stimuli, orientation, chemoreception, atmospheric

Insects, (continued)

- conditions 2797
- food organisms, food preferences, *Poecilia reticulata* 335
- food organisms, prey handling, energetics, *Atilia spadiceus*, *Monasa morphoeus* 3712.
- neurotransmitters, effects on *Mammalia* behavior 836
- night activity, equipment, cameras 3335
- night flight activity, aggregation behavior, convergence zones, atmospheric conditions 3778
- pheromones, chemical communication 1148
- prey, odors, learning behavior, *Bufo boreas* 1449
- resting behavior, webs, silk 2807.

Insecticides,

- chlordaneform, effects on operant conditioning, rats 3239.

- DDT, pollution effects, *Platichthys flesus*, Baltic 511.

Insectivora,

- burrowing behavior, vegetation patterns, habitat preferences, ecological distribution 487

Instars,

- Popillia japonica*, intraspecific relationships, competition, population density 1526.

Instruments,

- aversion conditioning, methodology, measuring techniques, cats 2199.
- counting methods, population density, *Aves* 1088.
- sensors, locomotion, stereotyped behavior, rats 1093.

Insulina,

- consummatory behavior, taste aversion learning, palatability, rats 1510
- effects on feeding behavior, hibernation, *Glis glis*, *Eliomys quercinus*, *Spermophilus lateralis* 1503.
- food intake, naloxone effects on, novelty, rats 4394.
- food intake regulation 3653.
- food intake regulation 4180.
- vagus nerve, hypothalamus lesions, hyperphagia, rats 4155

Intake,

- water, rats, brain, hypodipsia, lesions, thirst 402.

Intensity,

- CS, effects on latent inhibition, cardiac conditioning, rabbits 1753.
- matting behavior, mathematical models, *Drosophila* 136.
- noise, effects on discrimination learning, rats 722.
- shock, effects on avoidance learning, rats 583.

Interaction,

- unbreeding, natural selection, evolutionary genetics, interspecific relationships 1579
- interspecific relationships, natural selection, animal models, evolutionary genetics 1577.
- natural selection, evolutionary genetics, unbreeding, interspecific relationships 1580
- natural selection, evolutionary genetics, interspecific relationships 1578.

Interference,

- competition, soil-dropping behavior, *Tetramorium caespitum*, *Nomia melanderi* 2805.
- delayed response, matching-to-sample, pigeons 1664.
- discrimination learning, pigeons 1778.
- interval interval, memory, monkeys 620
- kindling behavior, electrical stimulation duration, amygdala, rats 919.
- memory, discrimination learning, reversal learning, retention, pigeons 1809
- reinforcement schedules, matching-to-sample, pigeons 393.
- retention, discrimination learning, pigeons 4019
- shock, inescapable shock, appetitive conditioning, activity, learned helplessness, laboratory animals 2246.
- taste aversion learning, conditioned response, rats 1765.

Intercranial transfer,

- aversion learning, CS, Columbia 717.
- visual discrimination learning, pigeons 4083.
- visual discrimination, Wulst ablation, telencephalon, pigeons 4220.
- visual perception, brain commissures, lesions, corpus callosum, rats 899.

Intersession time,

- delayed reinforcement, operant conditioning, pigeons 3916.

- operant conditioning, reinforcement, rats 541.

Interspecific hybridization,

- matting behavior, courtship, *Brachymeria lasus*, *Brachymeria intermedia* 1272.

Interspecific relationships,

- aggressive behavior, *Cichlasoma citrinellum* 3443.
- aggressive behavior, colonies, *Fomica lugubris*, *Fomica cucularia* 2317.
- aggressive behavior, habitat, *Parcoblatta* 2812.
- aggressive behavior, isolation effects on, mice, rats 1204.
- aggressive behavior, juveniles, *Sorex isodon* 3458.
- anti-predator behavior, foraging behavior, *Latreutes hesperus*, *Pagonomymex rugosus* 2809.
- association, social behavior, *Primates* 2594
- attack, *Streptopelia decaocto*, *Passer domesticus* 2327.
- attraction, pheromones, *Dendroctonus brevicornis*, *Ips paraconfusus* 1135.
- avoidance behavior, horses, *Tabanidae* 2208
- bioluminescence, mimicry, predation, *Photuris* 28
- brood care, parasites, *Clamator jacobinus*, *Turdoides affinis* 2539.
- chemical communication, competitive behavior, *Octopus joubini*, *Gonodactylus bredini* 425
- competition, aggressive behavior, *Vireo olivaceus*, *Vireo philadelphicus* 2324.
- competition, effects on breeding success, *Parus caeruleus*, *Parus major* 1307.
- competition, effects on females mate selection, *Chauliognathus pennsylvanicus* 154

Intersession time,

- delayed reinforcement, operant conditioning, pigeons 3916.
- operant conditioning, reinforcement, rats 541.

Interspecific hybridization,

- matting behavior, courtship, *Brachymeria lasus*, *Brachymeria intermedia* 1272.

Interspecific relationships,

- aggressive behavior, *Cichlasoma citrinellum* 3443.
- aggressive behavior, colonies, *Fomica lugubris*, *Fomica cucularia* 2317.
- aggressive behavior, habitat, *Parcoblatta* 2812.
- aggressive behavior, isolation effects on, mice, rats 1204.
- aggressive behavior, juveniles, *Sorex isodon* 3458.
- anti-predator behavior, foraging behavior, *Latreutes hesperus*, *Pagonomymex rugosus* 2809.
- association, social behavior, *Primates* 2594
- attack, *Streptopelia decaocto*, *Passer domesticus* 2327.
- attraction, pheromones, *Dendroctonus brevicornis*, *Ips paraconfusus* 1135.
- avoidance behavior, horses, *Tabanidae* 2208
- bioluminescence, mimicry, predation, *Photuris* 28
- brood care, parasites, *Clamator jacobinus*, *Turdoides affinis* 2539.
- chemical communication, competitive behavior, *Octopus joubini*, *Gonodactylus bredini* 425
- competition, aggressive behavior, *Vireo olivaceus*, *Vireo philadelphicus* 2324.
- competition, effects on breeding success, *Parus caeruleus*, *Parus major* 1307.
- competition, effects on females mate selection, *Chauliognathus pennsylvanicus* 154
- courtship, reproductive isolation, *Drosophila mojavensis*, *Drosophila arizonensis* 118.
- defense mechanisms, *Reticulitermes flavipes*, *Reticulitermes virginicus*, *Solenopsis geminata* 1189.
- feeding behavior, commensalism, *Aves* 2709
- feeding behavior, food availability, *Lutra lutra*, *Mustela vison*, British Isles 380.
- feeding behavior, *Hydrochoerus hydrochaeris*, *Aves* 2601
- feeding behavior, kleptoparasitism, *Passer domesticus*, *Sphex ichneumoneus* 376.
- feeding behavior, social hierarchy, agonists, *Meliphagidae* 3732.
- foraging behavior, seasonal variations, *Bombus* 2639
- host-parasite interactions, defensive behavior, *Molothrus ater*, *Dendroica petechia* 477.
- interaction, natural selection, evolutionary genetics, animal models 1577.
- movements, encounters, mathematical models, *Arthropoda* 2777.
- mutualism, *Dendroica laevis*, *Dendroctonus frontalis* 218

Interspecific relationships, (continued)

- natural selection, evolutionary genetics, inbreeding 1580.
 - natural selection, evolutionary genetics, interaction 1578.
 - natural selection, evolutionary genetics, interaction, inbreeding 1579
 - nesting behavior, defensive behavior, predatory behavior, *Crocodylus acutus*, *Iguana iguana* 3859.
 - nesting behavior, parental behavior, *Oenanthe picata*, *Petronia petronia* 3587
 - nests parasitism, egg laying, drought effects on, *Aythya americana*, Canada, Alberta 1299.
 - nests, struthide cinera, *Grallina cyanoleuca*, Australia 3724.
 - Oryzomys palustris* activity patterns effects on nesting behavior, *Ammosipiza maritima* 420.
 - pheromones effects on males activity patterns, *Dictyoploca japonica*, *Philosamia cynthia* 1145.
 - population regulation, aggressive behavior, killer trait, *Paramecium aurelia*, USA, Indiana 1524.
 - predation, habitat preferences, *Plethodon cinereus*, *Pipilo erythrophthalmus*, *Toxostoma rufum* 2820
 - predator-prey interactions, *Orius insidiosus*, *Sericothrips variabilis* 1551
 - predatory behavior, *Canis latrans*, *Odocoileus hemionus* 3738
 - raiding behavior, colonial characteristics, social behavior, *Chalepoxenus muellerianus* 2566.
 - reproductive behavior, isolation, *Parus atricapillus*, *Parus carolinensis* 176.
 - reproductive behavior, natural selection, *Perotrypa*, *Africimex*, *Xylocoris* 144
 - reproductive isolation, auditory communication, reproductive behavior, *Tympanuchus cupido*, *Pedioetes phasianellus* 2288
 - sexual behavior, aggregation behavior, *Megathira* 126
 - silk repellents, *Dictyna*, *Mallos* 1361
 - social behavior, display, *Phrynosoma platyrhinos*, *Phrynosoma coronatum* 3612
 - social organization, spatial distribution, dominance, cat 1226.
 - song, territorial behavior, *Fringilla coelebs*, *Parus major* 2290.
 - symbiosis, cleaning behavior, *Atherinops affinis*, *Eschscholus robustus*, Mexico, Baja California 421
 - sympatric populations, auditory communication, auditory discrimination, mating behavior, *Hyperolius* 1153.
 - tactile discrimination, sex, *Notonecta alauca* 105
 - territorial behavior, arousal, vocalization behavior, song, *Agelaius phoeniceus* 233.
 - territorial behavior, reproductive behavior, *Larus marinus* 2459.
 - territorial behavior, reproductive behavior, *Mirounga leonina*, *Arctiocephalus pusillus*, Namibia, Van Reenen Bay 480
 - territoriality, evolution, natural selection, aggression, adaptations 504.
 - webs construction, *Dendromyrmex charitae*, *Dendromyrmex fabricii* 1534.
- Interstimulus interval,**
- autoshaping, blocking, pigeons 3920
 - autoshaping, trace conditioning, response acquisition, pigeons 1659.
 - duration, discrimination learning, pigeons 1774.
 - reinforcement schedules, classical conditioning, rats 1761.
 - trace conditioning, fear conditioning, rats 1789.
- Intertidal environment,**
- habitat selection, aggregation, intraspecific relationships, *Clinocottus analis* 2831
 - water levels effects on ventilatory behavior, *Upogebia* 426
- Intestinal interval,**
- conditioning, extinction, rats 3895
 - discrimination learning, rats 3999.
 - effects on matching-to-sample performance, short term memory, pigeons 607
 - effects on responsiveness, operant conditioning, rats 547
 - effects on short term memory, maze learning, rats 612.
 - interference, memory, monkeys 520.
- Intracranial chemical stimulation,**
- adrenocorticotrophic hormone, β -endorphin, drug effects, benzodiazepines, grooming, mice 2135.
 - γ -aminobutyric acid, pons, effects on locomotor activity, running, rats 894
 - AMPA, substantia nigra, catalepsy, rats 795.
 - bombesin, hypothalamus, effects on food intake, rats 4174.
 - cholecystokinin octapeptide, avoidance behavior, latency, rats 930
 - cholecystokinin octapeptide, operant conditioning, food intake, water intake, pigs 927.
 - cholecystokinin peptides effects on satiety, sheep 2066.
 - enkephalin, activity patterns, rats 949
 - glucose, effects on food intake, rats 3116
 - glutamate, effects on defensive behavior, rage, cats 4274
 - hippocampus (dorsomedial), thyrotropin-releasing hormone, arousal, physical activity, *Citellus lateralis* 2063.
 - histamine, effects on open-field behavior, rats 4169.
 - 6-hydroxydopamine, reserpine, ventricles (cerebral), aggressive behavior, cats 997.
 - 5-hydroxytryptamine, inhibition, aggressive behavior, mice 847.
 - 5-hydroxytryptophan, neurotransmitters, sensitivity behavior, rats 792.
 - hypothalamus, dopamine, effects on maze learning, rats 597.
 - kanic acid, hallucinations, predatory behavior, cats 3219.
 - morphine, hypothalamus (ventromedial), feeding, norepinephrine, rats 2064.
 - naloxone, hypothalamus, ventricle (lateral), drinking, rats 2065.
 - neurotransmitters, drug effects, locomotor activity, nucleus accumbens, rats 942.
 - neurotransmitters, stereotyped behavior, peptides, mice 926.
 - nucleus accumbens, dopamine, locomotor activity, catalepsy, *Saimiri sciureus* 2011.
 - progesterone, limbic system, lordosis behavior, females, rats 1040.
 - S 180 proteins, anisera, effects on, handedness, visual discrimination, rats 797.
 - reinforcement, chlorpromazine, potentiation, naloxone, rats 2001.
 - saline water, effects on maze learning, brain lesions, rats 4271.
 - scopolamine, nicitating membrane response conditioning, hippocampus, septum, rabbits 838.
 - self-stimulation, drug effects, desipramine, rats 2118.
 - striate cortex, dopamine, effects on stereotyped behavior, rats 1019.
 - testosterone implants, lordosis behavior, females, hamsters 1053.
 - ventricles (cerebral), cholecystokinin antisera, effects on, avoidance behavior, rats 579.
 - ventricles (cerebral), neurotransmitters, substance P, stereotyped behavior, thermoregulation, *Gallus domesticus* 834
- Intracranial recording,**
- cortex, auditory stimuli, man 1927
 - dopaminergic cell, substantia nigra, tegmentum, brain 2010.
 - hippocampus, lesions, rats 2023

Intracranial recordings.

substantia nigra, self-stimulation, mapping, rats 916.

Intracranial reinforcement.

morphine, mechanisms, conditioning, rats 4378

Intracranial self-stimulation.

age effects on neurophysiology, rats 4280
alcohol, reinforcement, rats 3928
D-amphetamine, Δ^9 -tetrahydrocannabinol, rats 4272
central gray, aversion learning, mice 2054
conditioned response, taste aversion, taste preferences, lithium chloride, rats 4115.

desipramine effects on, rats 3294

dopamine local effects on, rats 4243

drug effects, cocaine, detection threshold, dissociation, *Rattus rattus* 958

drug effects, rats 3220

drug self-administration, tegmentum, morphine, mediation, opiate receptors, rats 3273.

drugs, reinforcement, rats 4273

drugs, reinforcement, rats 4275.

enkephalin, leucine-, reinforcement, rats 4268

environmental effects, rats 3159

ESB, diencephalon, operant conditioning, rats 4255

ESB, equipment, methodology 4420

ESB, extinction, rats 2053

ESB, reinforcement, dopamine, rats 4265

ESB, reinforcement, drug effects, rats 4266

ESB, reinforcement, rats 4260

food deprivation, rats 2052

food shock effects on, rats 4259

hypothalamus, central gray, approach behavior, escape behavior, rats 2051

hypothalamus, food deprivation effects on, rats 4257

hypothalamus (lateral), sex differences, rats 2047

hypothalamus, memory, sensory reinforcement, rats 3215

medial forebrain bundle, rats 2059

motor activity, hydergine effects on, rats 3295

neurophysiology, reviews 4267

operant conditioning, acquisition, cerebellum pathways, rats 4262

operant response, trigeminal nerve ablation effects on, rats 4159

reinforcement asymmetry, drug effects, amphetamine, behavior, rats 973

reinforcement, habenular complex, rats 2057

reinforcement, juveniles, rats 2048

sleep (paradoxical) deprivation effects on, rats 4256

substantia nigra, amphetamine, mechanisms, rats 4269

substantia nigra, tegmentum, striate cortex lesions effects on, rats 4258

thalamus, rats 4254

Intragastric infusion.

equipment, rats 4434

Intraocular transfer.

reversal learning, corpus callosum, cats 591

Intraspecific hybridization.

sexual behavior, *Larus delawarensis*, *Larus pipixcan*, Canada, Alberta 2463

Intraspecific relationships.

abortion, males, sexual behavior, *Microtus ochrogaster* 2505

aggregates, survival value, environmental factors, *Clibanarius dugueti*, USA, California Gulf 80

aggregation, habitat selection, intertidal environment, *Clinocottus analis* 2831

aggregation pheromone, dispersion pheromones, effects on larvae, *Blattella germanica* 26

aggression, aggressive behavior, activity patterns, sex differences, *Sturnus vulgaris* 62

aggression, castes, colonial characteristics, *Monomorium pharaonis* 1192

aggression, juveniles, rats 1209

aggression, pregnancy, fetuses sex differences, *Macaca nemestrina* 1213

aggressive behavior, body size, *Phymactis clematis*, Chile Coast 54

aggressive behavior, *Cichlasoma citrinellum* 3443

aggressive behavior, colonies, *Fornica lugubris*, *Fornica cunicularia* 2317

aggressive behavior, dominance, *Phymactis clematis*, Chile 1188

aggressive behavior, isolation effects on, mice 1204

aggressive behavior, population regulation, *Clethrionomys gapperi*, Canada, Manitoba 1567

agostic behavior, *Pagurus prideaux* 3442

association, *Polistes metricus* 221.

auditory communication, reproductive status, *Megaptera novaeangliae*, Hawaii.

Tropical Pacific Ocean 46

chemical communication, sandbathing, *Dipodomys merriami*, *Dipodomys microps* 2308

colonies, feeding behavior, communication, *Aves* 1166

color preferences, *Anas platyrhynchos* 716

competition, habitat selection, *Parus major* 3813

competition, mating behavior, *Calopteryx discipulus* 1255

competition, parasitoids, population density effects on host searching behavior, *Venturia canescens* 1556

competition, sheltering behavior, *Setonix brachyurus* 2857

competition, spatial distribution, foraging behavior, colonies, *Pogonomymex badius* 1424

competition, zonation, body size, *Littorina unguiculata* 1527

dispersal, colonization, habitat selection, population density, *Peromyscus maniculatus*, Canada, British Columbia, Mandarte I. 90

effects on workers egg laying, *Bombus terrestris* 125.

fighting, *Salticus scenicus* 55.

foraging behavior, anti-predator behavior, freshwater environments, *Notonecta hoffmanni* 3779.

foraging behavior, seasonal variations, interspecific relationships, castes, *Bombus* 2639.

instars, *Popillia japonica*, competition, population density 1526.

nesting behavior, site selection, *Bembix pruinosa* 3791.

odors response, sex differences, territorial behavior, *Meriones unguiculatus* 1175.

oviposition deterrents, pheromones, *Rhagoletis basiola* 1130.

recognition, behavior ecology, *Anas* 419

sepal lesions, aggressive behavior, males, hamsters 883.

social behavior, reproductive behavior, selection, dispersal, *Apelocoma coeruleus* 15230.

social behavior, social interactions, adults, juveniles, *Haliaeetus leucocephalus* 235.

spatial distribution, environmental effects, hormones, *Saimiri sciureus* 1227.

Intraspecific relationships. (continued)

spatial distribution, nesting behavior, *Bembix pruinosa* 2795.

territorial behavior, food availability, juveniles, *Oncorhynchus kisutch*, Canada 1221

territorial behavior, social behavior, aggression, *Muscipora nigrorufa*, India 231.

territorial behavior, song, *Sturnella magna*, *Sturnella neglecta* 2355.

Intrauterine exposure.

alcohol, effects on avoidance learning, rats 3279.

alcohol, effects on avoidance learning, rats 4297.

alcohol, effects on food intake, water intake, rats 3257

alcohol, effects on learning behavior, activity patterns, *Rodentia* 3244.

alcohol, 2-ethoxyethanol, effects on motor activity, rats 4310

alcoholic beverages, effects on wheel running, activity patterns, rats 3251.

amphetamine, effects on learning behavior, rats 525.

d-amphetamine, effects on maze learning, locomotor activity, rats 4301

androgens, effects on females sexual behavior, rats 3888

blood circulation, effects on cardiac conditioning, dogs 1619.

carbon monoxide, effects on learning behavior performance, rats 1608.

chloramphenicol, effects on avoidance learning, rats 3230.

2-ethoxyethanol, effects on activity patterns, rats 4325.

6-hydroxydopamine, motor activity, rats 4170.

imipramine, effects on activity patterns, rats 3237

lead acetate, drug effects, discrimination, rats 1605

lead, effects on learning behavior, rats 4299

lead nitrate, open-field behavior, avoidance learning, rats 4324

methadone, effects on behavior, monoamines, brain, rats 1606.

methadone, effects on operant response, mice 3227.

methadone, heroin, effects on hyperactivity, motor task performance, sleep, laboratory animals 4276

methylmercury, effects on activity patterns, neonates, rats 4304

methylmercury, effects on escape behavior, avoidance learning, rats 1612.

methylmercury, effects on learning behavior, rats 4303.

naloxone, effects on learning behavior, ontogeny, rats 1611.

naloxone, effects on maze learning, startle response, olfactory discrimination, rats 3249

nicotine, effects on exploratory behavior, discrimination learning, guinea-pigs 4305

nicotine, methamphetamine, effects on locomotor activity, activity patterns, methamphetamine 3243.

N-nitroso-N-ethylurea, effects on locomotor activity, emotional behavior, ontogeny, rats 2914.

novaluron, lead acetate, effects on open-field behavior, chickens 4302.

paint thinner, effects on swimming behavior development, rats 1607

PCB, effects on avoidance learning, mice 3260.

phenobarbition, effects on activity patterns, mice 1609.

phenobarbition, effects on open-field behavior, mice 3245.

prednisolone, effects on maturation, locomotor activity, mice 4292.

psychotropic drugs, effects on behavior, rats 3262.

X-radiation, effects on avoidance learning, rats 1613.

radiation, effects on visual discrimination learning, *Saimiri* 2924

retinol, effects on ontogeny, learning behavior, rats 2912.

toluene, effects on open-field behavior, mice 3255.

triphenyltin, effects on motor activity, development, avoidance learning, rats 4307.

Intruder.

social behavior, territorial behavior, aggressive behavior, *Saguinus oedipus*

oedipus, *Saguinus fuscicollis* 1384

Invertebrata.

food availability, foraging behavior, *Anas* 3704

photoreceptors, circadian rhythms, photoperiod, reviews 4149.

Ionization.

air, brain, arousal, EEG, neurophysiology, rats 864.

air, learning behavior, memory, rats, mice 613.

atmospheric conditions, effects on avoidance learning, rats 567.

Ions.

calcium, magnesium, effects on feeding behavior, drinking behavior, sheep 799.

circadian rhythms, endogenous stimuli, oscillators, cellular mechanisms 743.

Ipomopsis aggregata.

host plants, foraging behavior optimization, *Trochilidae* 2691.

oviposition deterrents, parasites, *Hylemyia* 112.

Ips paracausus.

aggregation, sex pheromone biosynthesis, mating effects on 1149.

feeding behavior, *Pinus ponderosa* extractants effects on 1425.

pheromones, attraction, interspecific relationships, *Dendroctonus brevicornis* 1135

Ips typographus.

predator-prey interactions, pheromones, biochemical analysis, chemotaxis 635.

Iridomyrmex purpureus, trail following behavior, diel periodicity, temperature effects, Australia 1553.

Iron.

nutrient deficiency, coprophagy, rats 3745.

nutrient deficiency, early experience, effects on food intake, taste aversion learning, rats 519.

nutrient deficiency, effects on thermoregulatory behavior, motor activity, rats 521.

Irrigated areas.

pasture, grazing, rotation, stocking rates, body weight, sheep 414.

Irritability.

drug effects, p-chloroamphetamine, rats 2153.

Ischnochiton dispar.

activity patterns, rhythms, homing behavior 744.

Islands.

foraging behavior, activity patterns, *Petroica australis* 3860.

Isofluorophate.

effects on avoidance behavior, rats 3246

Isolation.

distress, vocalization behavior, opiates effects on, juveniles, chickens 785.

effects on aggression, mice 1198

effects on aggressive behavior, mice 1204.

effects on scent marking behavior, brain activity, *Meriones unguiculatus* 1918.

effects on social behavior, *Macaca* 1629.

effects on social behavior, rats 1617.

effects on social behavior, rhesus monkeys 1379.

effects on testosterone role, aggressive behavior, mice 2183.

effects on valproic acid sensitivity, 5-hydroxytryptamine metabolism, rats 4357.

Isolation, (continued)

- habitat, social environment, locomotor activity, activity patterns, rats 1571.
 handling, effects on tactile stimuli reactivity, rats 3086.
 hybrids, mating behavior, auditory communication, *Rana pipiens*, *Rana blairi* 31.
 mother-offspring interactions, effects on social behavior, *Macaca nemestrina* 1385.
 rearing, effects on avoidance learning, rats 580.
 rearing, effects on opiates receptors, rats 3875.
 rearing, open-field behavior, emotional behavior, rats 3884.
 reproductive behavior, interspecific relationships, *Parus atricapillus*, *Parus carolinensis* 176.
 reproductive behavior, speciation, natural selection, behavioral genetics, mathematical models 104.
 social environment, aggressive behavior, hormones effects on, mice 1196.
 social environment, effects on aggressive behavior, septum lesions, mice 4248.
 social environment, effects on locomotor activity, antidepressants, rats 523.
 social environment, effects on orientation, ontogeny, rats 3879.
 social environment, effects on sexual behavior, males, rats 3561.
 social environment, social behavior ontogeny, *Mesocricetus auratus* 3636.
 speciation, evolution, behavior role, *Spalax ehrenbergi* 509.
 stress, effects on open-field behavior, mice, effects on 1622.
 sympatric populations, dimorphism, sexual behavior, courtship, *Aechmophorus occidentalis* 172.
Isomers,
 opsids, discrimination learning, rats 2139.
Isodon macrourus,
 activity patterns, rhythms, wheel running, captivity 3101.
Isopretensol,
 aniconflict effects, punishment, drinking behavior, rats 3954.
Isopretensol,
 maze learning, conspecifics experience effects on 586.
Isotrichopus badionotus,
 feeding behavior, activity patterns, diurnal variations, Jamaica, Discovery Bay 3662.
Istioanax indicus,
 visual perception, color blindness 3053.
Istiothoracidae,
 visual perception, color blindness 3053.
Ixobrychus exilis,
 nesting behavior, parental behavior, males 2534.
Ixodes ovatus,
 activity patterns 441.
Jabiru mycteria,
 nesting behavior, copulation, brood care 2473.
Japetella diaphana,
 bioluminescence, mating behavior 2252.
Jasus lalandii,
 locomotion, nervous system 1860.
Jaw,
 functional morphology, predatory behavior, suction feeding, *Luciocephalus pulcher* 1404.
Jugurtia confusa,
 reproductive behavior, life history, South Africa 444.
Jumping,
 activity patterns, fitness, genetic factors, *Mus musculus* 1589.
 avoidance learning, extinction, flooding, rats 1634.
 functional morphology, bone biomechanics, hip, thigh, locomotion, *Prosimi* 806.
 neurophysiology, foot shock, clonidine, apomorphine, phenoxymethazine, pimozide, rats 852.
Junco hyemalis,
 reinforcement schedules, preferences, feeding behavior, food intake, deprivation, energy intake 1467.
Junco,
 habitat preferences, nesting behavior, *Ammodramus maritima* 420.
Juvenile hormones,
 effects on sense organs, mating behavior, *Blattella germanica* 1275.
Juveniles,
 aggression, intraspecific relationships, rats 1209.
 aggressive behavior, interspecific relationships, *Sorex isodon* 3458.
 aggressive behavior, males effects on, imprinting, rats 1202.
 aggressive behavior, scent marking behavior, castration effects on, *Saguinus fuscicollis* 244.
 appendages, handedness, *Menippe mercenaria* 779.
 auditory communication, vocalization behavior, feeding, competition, *Cuculus canorus* 3815.
 avoidance learning, reinforcement schedules, hippocampus development, rats 1730.
 behavioral contrast, reinforcement, ontogeny, successive negative contrast, rats 2922.
 burrowing behavior, sheltering behavior, substrate preferences, *Homarus americanus* 2778.
 caffeine effects on suckling behavior, orientation, activity patterns, rats 4309.
Chelonoidis mydas, prey, *Promicropus lanceolatus*, *Tonga islands* 1460.
 chickens, distress vocalization behavior, opiates effects on 785.
 color preferences, visual stimuli effects on, chickens 1888.
 conspecific odors recognition, chemoreception, *Cichlasoma citrinellum* 2287.
 crowding, effects on nervous morphogenesis, *Hemichromis bimaculatus* 3142.
 crowding effects on social spacing, *Hemichromis bimaculatus* 2349.
 development, cardiac conditioning, visual perception, rats 1623.
 development, vocalization behavior, mother-offspring interactions, *Molossus molossus* 2550.
 dispersal, social behavior, parental behavior, environmental effects, habitat, *Marmosa flaviventris* 239.
 display, grooming, *Molothrus ater* 38.
 distribution, comparative studies, *Coregonus artedii*, *Coregonus clupeaformis*, Canada, James Bay 648.
 echolocation, flight activity, Chiroptera 1855.
 energy budget, milk reduction effects on play, grazing, *Odocoileus virginianus* 2232.
 exploratory behavior, activity patterns, *Saimiri sciureus* 2226.
 factors affecting arousal, rats 2224.
 feeding behavior, diurnal variations, *Oncorhynchus kisutch*, *Salmo gairdneri* 345.
 feeding behavior, food organisms, *Salmo gairdneri* 3693.
 feeding behavior, food preferences, *Aepyroceros melampus* 409.

Juveniles, (continued)

- feeding behavior, hunger effects on, *Oncorhynchus gorbuscha* 339.
 flight activity ontogeny, chickens 1873.
 food consumption, diets, variation, adults, *Pollipicus polymerus* 3658.
 food organisms, feeding behavior, burnt ground, heaths, *Pyrrhocorax pyrrhocorax*, *Hedysia* 2713.
 food organisms, predation, *Promicropus lanceolatus*, *Chelonoidis mydas* 2682.
 food organisms, selection, predatory behavior, *Accipiter nisus*, *Parus* 2716.
 food preferences, developmental stages, water depth, *Delentosteus quadrimaculatus* 1453.
 high fat diet effects on food preferences, rats 1446.
 home range, predator-prey interactions, *Odocoileus hemionus*, *Canis latrans*, USA, Colorado 1224.
 imprinting, auditory stimuli, tonic immobility, chickens 2242.
 imprinting, social bonds, chickens 1367.
 intracranial self-stimulation, reinforcement, rats 2048.
 lead effects on learning behavior, hippocampus, rats 3228.
 lead effects on lithium induction polydipsia, rats 3256.
 learning behavior, sensory stimuli deprivation effects on, ducks 1602.
 learning behavior, social behavior, mother-offspring interactions, *Macaca mulatta* 1356.
 locomotor activity, circadian rhythms, photoreceptors, *Alligator mississippiensis* 753.
 locomotor activity, discrimination learning, cadmium effects on, rats 4300.
 locomotor activity, metamorphosis, *Macrobrachium rosenbergii* 4065.
 malnutrition, effects on maternal behavior, rats 1353.
 memory, learning behavior, testosterone effects on, chickens 3308.
 migrations, geographical distribution, *Empidonax flaviventris* 3016.
 molting, activity patterns, stereotyped behavior, *Rhodnius prolixus* 2791.
 morphine receptors ontogeny, rats 2122.
 nursing, role, tactile stimuli, rats 1352.
 ontogeny, feeding behavior, migrations, *Haemulon flavolineatum*, *Haemulon plumieri*, US Virgin Is., St. Croix 3873.
 orientation, migrations, water currents, *Salmo gairdneri* 3009.
 perception, alarm behavior vocalization behavior, domestication effects on, *Anas platyrhynchos* 508.
 preferential behavior, color, genetics, visual perception, *Coturnix coturnix japonica* 1889.
 puberty, reproductive behavior, hormones, *Saimiri* 195.
 rearing, social environment, effects on open-field behavior, sheep 3348.
 sexual behavior, testosterone effects on, chickens 3309.
 siblings, social hierarchy, food availability, *Haematopus ostralegus* 2375.
 social behavior, early experience effects on, *Acomys cahirinus* 3628.
 social behavior ontogeny, *Macaca mulatta* 2592.
 social behavior, play, environmental effects, helicopters, *Rangifer tarandus pearyi* 241.
 social behavior, visual stimuli, *Macaca radiata* 1386.
 social organization, *Tupaia glis* 3650.
 song, *Emberiza schoeniclus* 3408.
 survival, environmental factors, *Pygoscelis papua*, Marion Island 160.
 swimming, activity patterns, circadian rhythms, photoperiods, *Oncorhynchus gorbuscha* 756.
 synchronization, molting behavior, chemical communication, *Macrobrachium rosenbergii* 2.
 tidal rhythm migrations, Crangon crangon, Wadden Sea 624.
 urine odors, preferences, fecal populations, guinea-pigs 1178.
 ventilatory behavior, posture, respiration frequency, *Mammalia* 515.
 vertical migrations, photoperiods effects on, *Meloidogyne* 621.
 vertical migrations, soil characteristics effects on, *Meloidogyne incognita* 622.
 weaning, feeding behavior, cats 1518.
 wheel running, butylated hydroxyanisole effects on 3242.
Kainic acid,
 effects on stereotyped behavior, circling behavior, rats 3233.
 intracranial chemical stimulation, effects on predatory behavior, hallucinations, cats 3219.
 lesions, caudate putamen, globus pallidus, enzymatic activity, substantia nigra, locomotor activity, rats 906.
Kainomones,
 effects on host searching behavior, *Trichogramma pretiosum*, *Heliopsis zea* 18.
 eggs, Adoxophyes, host searching behavior, oviposition, *Ascogaster reticulatus* 3495.
 exploratory behavior, parasites, silk, exposure time, diurnal variations, *Apanteles melanoscelus*, *Lymantira dispar* 450.
 prey, effects on predatory behavior, *Amblyseius fallacis*, *Phytoseiulus macropilis* 1901.
Katsuwonus pelamis,
 locomotor activity, ESB 692.
Ketamine,
 drug effects, operant response, behavior maintenance, *Macaca mulatta* 1023.
 effects on avoidance learning, monkeys 3304.
 effects on locomotor activity, pain perception, rats 4332.
 responsiveness, punishment, pigeons 2109.
β-Ketoadipate,
 attractants, chemotaxis, *Pseudomonas putida* 629.
Kin selection,
 selection, environmental effects, mathematical models 499.
 altruism, reproductive behavior, *Nesomimus parvulus* 2467.
 altruism, statistical genetics, evolutionary genetics, behavioral genetics 2874.
 cooperation, competitive behavior, *Panthera leo* 3829.
 evolutionary genetics, behavioral genetics, altruism, *Coleoptera* 3845.
 inbreeding, evolution altruism 502.
Kindling,
 electrical stimulation duration, interference, amygdala, rats 919.
 ESB, amygdala, rats 2049.
 ESB preexposure effects on, rats 4252.
 ESB, rats 4253.
Kinsterson baurii,
 autecology, osmoregulation, habitat preferences 460.
Kinship,
 social behavior, aggressive behavior, mice 3632.
Kobus ellipsiprymnus,
 social organization, foraging behavior, habitat utilization, territorial behavior, Zimbabwe 1370.

- Kynurenine**, metabolites, effects on locomotor activity, convulsions, rats, mice 4345
- Laboe rohita**, brain, anatomy, correlation, feeding behavior 832
- Labidura riparia**, eggs, hygiene, effects on maternal behavior 137
food consumption inhibition, brain 290
maternal behavior, brood care, eggs, females 3500
- Laboratories**, rearing, hibernation, patterns, *Elomys quercinus* 1943
- Laboratory animals**, feeding behavior, food intake, water intake, *Macaca fuscata* 415
learned helplessness, appetitive conditioning, shock, inescapable shock, interference, activity 2246
methadone, heroin, intravenous exposure, effects on hyperactivity, motor task performance, sleep 4276
methodology, cages, equipment, rats, mice 1090
- Labridae**, spawning behavior, diurnal variations, periodicity 2451
- Labrisomidae filamentosus**, ecological distribution, habitat selection, territorial behavior, Barbados 466
- Lacerta viridis**, photoperiod, effects on thermoregulatory behavior 3798
- Lacerta vivipara**, escape behavior, predation vulnerability, reproduction effects on 2817
- Lacertilla**, foraging behavior ecology, predators, food consumption, deserts 1559
- Lactodon**, nesting behavior, Micronesia pennsylvanica, USA, New York 2504
nursing, reproductive behavior, *Menomys unguiculatus* 1330
sheep, water intake, water resources, snow, adaptations 407
- Lagopus lagopus**, crop content, seasonal variations, diel variations 2694
feeding behavior, diets, summer, *salix* 1474
lagopus, scotious, comparative studies, reproductive behavior, egg laying, light effects, photoperiods 178
- Lagopus lagopus lagopus**, nesting behavior, reproductive behavior, breeding success 2457
- Lagopus lagopus scoticus**, aggressive behavior, dominance, inheritance 2326
- Lagopus mutus rupestris**, body fat, protein status, reserves, energy requirements, feeding behavior, winter 371
- Lagopus mutus helveticus**, feeding behavior, winter, snowmelt, Europe, Alps 1471
- Lama vicugna**, population structure, social organization, environmental factors, Peru, Pampa Galeras Natl Reserve 3623
- Lambertia formosa**, host plants, nectar, foraging behavior optimization, Meliphaeidae 2692
- Lamprologus brichardi**, altruism, brood care, Burundi, Lake Tanganyika 227
- Lamprolepis calligaster**, sexual behavior, courtship, copulation 152
- Lamprolepis getulus**, thermoregulatory behavior, body temperature 2822
- Lampropholis**, food organisms, diets, *Furina*, *Glyphodon* 1443
- Lampisilla ventricosa**, olfactory organs, nerves, histology 814
- Landing behavior**, habituation, visual perception, *Drosophila melanogaster* 690
orientation, phototaxis, *Scaptomyza aetulus* 1905
- Language**, communication, symbols, *Pan troglodytes* 50
transfer learning, pairing, *Pan troglodytes* 603
- Lanias colurio**, hosts, parasites rearing, brood care, *Cuculus canorus* 2533
- Lanias excubitor**, feeding behavior, frugivory, Algeria 3721
- Lanugo retractor**, life history, mating behavior, oviposition, development 139
- Larus**, feces, feeding behavior, *Arenaria interpres* 3720
sexual behavior, social behavior, genetic factors 2470
social behavior, altruism, aggressive behavior, colonies 2575
- Larus argentatus**, colonies, parental behavior, parent-offspring interactions 3590
mating behavior, association 159
nesting behavior, habitat selection, vegetation, wind 2466
parental behavior, offspring maturation, USA, New Jersey, Barnegat Bay 197
predation, aggressive behavior, *Clangula hyemalis* 2724
predatory behavior, breeding success, *Mergus serrator*, USA, Wisconsin 3714
sex ratio effects on mate selection, breeding sites 162
visual discrimination, threatening behavior, man, nesting behavior 3054
- Larus argentatus michabelis**, diets, feeding behavior 3705
- Larus atricilla**, hatching behavior, synchronization, survival, reproductive strategy 2841
- Larus audouinii**, diets, feeding behavior 3705
- Larus bulleri**, colonial characteristics, recruitment, auditory communication, foraging behavior 2289
foraging behavior, habitat utilization, colonies 3708
- Larus californicus**, nesting behavior, territorial behavior, aggregation behavior 88
- Larus canus**, feeding behavior, food organisms, *Operophtera brumata*, British Isles, Mainland 348
play, social behavior 4470
- Larus delawarensis**, aggression, territorial behavior, sex differences, USA, Michigan 2325
- Larus delawarensis, (continued)**
intraspecific hybridization, sexual behavior, *Larus pipixcan*, Canada, Alberta 2463
nesting behavior, territorial behavior, aggregation behavior 88
- Larus dominicanus**, nesting behavior, habitat selection, environmental factors, colonies, South Africa 1302
- Larus marinus**, cleptoparasitism, *Ardea herodias* 2695
nesting behavior, territorial behavior, breeding success, colonial characteristics 3585
territorial behavior, reproductive behavior, agonistic behavior, hatching, mortality 2459
visual discrimination, threatening behavior, man, nesting behavior 3054
- Larus minutus**, sexual behavior, breeding success 164
- Larus occidentalis wymani**, homosexual behavior, sex hormones effects on, females 2471
- Larus philadelphia**, feeding behavior, diets, Canada, New Brunswick, Deer I. 2700
- Larus pipixcan**, intraspecific hybridization, sexual behavior, *Larus delawarensis*, Canada, Alberta 2463
- Larus ridibundus**, colonies formation, territorial behavior, breeding 3470
colonies, territorial behavior 3469
overwintering, migrations, seasonal variations, Switzerland 657
- Larvae**, activity patterns, colonies, *Malacosoma americanum* 2793
activity patterns, polymorphism, behavior, colonial characteristics, *Malacosoma americanum* 3794
aggregation pheromone, dispersion pheromones effects on, intraspecific relationships, *Blattella germanica* 26
behavior, *Copris lunaris* 1289
burrowing behavior, metamorphosis, *Muraenichthys gymnotus* 2828
burrowing behavior, pupation, *Dytiscus verticalis* 2799
chemotaxis, nucleotides, *Culex pipiens quinquefasciatus* 4101
dispersal, mating behavior, *Centropge* 2455
emergence, *Uropetala carovei carovei*, New Zealand, Wellington 3788
factors affecting abundance, colonial characteristics, *Myrmica* 1413
factors affecting aggregation behavior, *Arge nigridorsata* 428
feeding behavior, diets, *Anchoa mitchilli*, *Anchoa lamprotaenia* 2685
feeding behavior, food preferences, zooplankton, *Clupea harengus* 3700
feeding behavior, host plants, *Athenogona soccata* 2784
feeding behavior, *Perla truncaula*, *Cylindropennum* 1401
feeding behavior, predation, food sources population density effects on, *Phytoseiulus persimilis*, *Amblyseius degeneratus* 283
feeding behavior, social behavior, *Engraulis mordax*, *Trachurus symmetricus* 2833
feeding, workers, *Bombus terrestris*, *Bombus terreicola* 308
mealopae, swimming behavior, *Portunidae*, *Curacao* 3607
morphology, nesting behavior, *Agostemon* 2437
orientation, environmental factors, *Oncorhynchus nerka*, Canada, British Columbia, *Hamson* L. 647
orientation, gonotaxis, *Hymenocidion sanguinea* 3011
phototaxis, dispersal, *Hydrosyche cockerelli*, USA, Columbia R. 3004
pinal eye, role, locomotor activity, *Xenopus laevis* 4080
predation, eggs, ponds, *Chironomidae*, *Engraulis mordax*, Quebec 320
removal, workers, disease resistance, brood disease, *Apis mellifera* 3785
schooling behavior, spatial distribution, orientation, *Bufo woodhousei*, *Xenopus laevis* 3796
schooling behavior, visual stimuli, olfactory stimuli, social environment, *Rhinophrynus dorsalis* 3615
survival, nesting behavior, *Onitis belial*, *Onitis ion* 2424
survival, oviposition habitat preferences effects on, *Drosophila nigrospiracula*, *Drosophila mettleri* 122
swimming behavior development, *Echinoida* 672
swimming behavior, *Engraulis mordax* 3042
ventilatory behavior, respiration, swimming behavior, *Engraulis mordax* 2834
- Lasioglossum zephyrum**, colonial characteristics, castes, social behavior 2562
colonial characteristics, castes, social behavior 2567
colonial characteristics, workers mating behavior, queens effects on 1240
olfactory discrimination, odors, recognition, nest mates 1951
social organization, colonial characteristics 2560
- Lasius sakagami**, mating behavior, colonial characteristics, population genetics 1242
- Latency**, avoidance behavior, intracranial chemical stimulation, cholecystokinin octapeptide, rats 930
avoidance learning, conditioned response, rats 1731
avoidance learning, drug effects, 6-hydroxydopamine, catecholamines, rats 1734
conditioning, drug tolerance, morphine, rats 2159
copulation, cages, space effects, mice, *Peromyscus maniculatus* 1322
escape behavior, stress, analgesia, rats 4480
matching-to-sample, delayed response, memory, pigeons 1654
maternal behavior, maternal effects, experience, parous state, rats 1326
nictitating membrane response conditioning, electrical stimulation, rabbits 3950
- Latent inhibition**, aversive brain stimulation effects on, reticular formation, rats 2055
cardiac conditioning, rabbits 1753
fear conditioning, heart rate, rats 1636
potentiation, classical conditioning, rats 2941
- Latent learning**, hippocampus lesions, rats 2017
- Lateral geniculate nucleus**, morphology, visual deprivation effects on, *Cacaca* 805
neurons, depolarization, sleep (paradoxical), cats 1992
- Lateral hypothalamus**, neurons, role, feeding behavior, electrophysiological recording, monkeys 2009
- Lateral line**, denervation, social organization, schooling behavior, *Notemogonus crysoleucas* 2353
feeding behavior, swimming behavior, *Aplocheilichthys lineatus* 3687
mechanoreceptors, object detection, mechanical stimuli, *Anoptichthys jordani* 3079

- Lateral posterior nucleus**, anatomy, colliculus lesions effects on, hamster 846.
- Latecauda colubaria**, foraging behavior, predatory behavior 2666.
- Latrodectus hesperus**, interspecific relationships, anti-predator behavior, foraging behavior, Pagonomyrmex rugosus 2809.
- Lead**, d-amphetamine, effects on locomotor activity, rats 3241.
chronic exposure, drug deprivation effects on, locomotor activity, rats 1598.
effects on aggressive behavior, open-field behavior, mice 4291.
effects on hippocampus, learning behavior, juveniles, rats 3228.
effects on learning behavior, exploratory behavior, activity patterns, mice 3229.
effects on lithium induction polydipsia, juveniles, rats 3256.
effects on open-field behavior, activity patterns, mice 3268.
effects on schedule-induced behavior, catecholamines, brain, pigeons 3225.
effects on temperature perception, consummatory behavior, mice 413.
environmental effects, ontogeny, behavior, striatal dopamine neurons, rats 1624.
intrauterine exposure, effects on learning behavior, rats 4299.
- Lead acetate**, acetic acid, effects on open-field behavior, activity patterns, rats 4296.
drug effects discrimination, intrauterine exposure, rats 1605.
- Lead nitrate**, intrauterine exposure, open-field behavior, avoidance learning, rats 4324.
- Leaders**, social behavior, dominance, grazing, cattle 1376.
- Lead litter**, feeding behavior, association, *Turdus philomelos*, *Talpa europaea* 2600.
food preferences, feeding behavior, freshwater environments, *Potamopyrgus jenkinsi* 1396.
- Learned helplessness**, appetitive conditioning, reinforcement, rats 3935.
avoidance learning, depression, rats 1729.
depression, gamma-aminobutyric acid, drug effects, bicuculline 1950.
escape behavior, depression, rats 4464.
extinction, reinforcement, rats 1675.
inescapable shock, appetitive conditioning, interference, laboratory animals 2246.
nortriptyline effects on, stress, mice 4288.
shock, aggressive behavior, social behavior, rats 3457.
shock, runway learning, aversion, appetitive conditioning, mice 1754.
- Learned response**, consummatory behavior, operant response, pecking behavior, stimulus control, autoshaping, pigeons 1647.
- Learning**, classical conditioning, neurons adaptations, models 1971.
conditioning, autoshaping, orienting response, reviews 3900.
conditioning, conferences 2249.
ecological analysis, theories 3331.
effects on brain organization, rhesus monkeys 876.
ethanol tolerance, rats 2136.
ethology, adaptations, theories 4418.
memory, diving behavior, *Pinnipedia* 2903.
motor skill, vocalization behavior, brain, *Aves* 833.
song, auditory communication, *Melospiza georgiana* 1164.
song, ontogeny, auditory communication, *Fringilla coelebs* 1168.
- Learning behavior**, alcohol effects on, intrauterine exposure, *Rodentia* 3244.
amphetamine intrauterine exposure effects on, rats 525.
appetitive conditioning, odors, novelty, neonates, rats 3927.
appetitive conditioning, rats 3939.
appetitive conditioning, reinforcement, rats 3935.
associative learning, conditioning, reviews 3901.
autoshaping, omission contingency, tracking, rats 1706.
avoidance learning, *Drosophila melanogaster* 561.
avoidance learning, locomotor activity, *Carinus maenas* 559.
avoidance learning, temperature effects on, mice 3973.
behavior modification, drug effects, puromycin, *Helix pomatia* 528.
calling behavior, vocalization behavior, song complexity, geographical variations, *Troglodytes troglodytes* 42.
caudate nucleus lesions effects on, rats 2016.
chlorpromazine effects on, rats 3235.
classical conditioning, abnormal behaviors 3902.
cognitive ability performance, iron deficiency, rats 590.
cortex (entorhinal) lesions effects on, mice 2044.
corticotropin effects on, immunological tolerance, rats 4370.
courtship, pollution effects, phenol, *Pocilia reticulata* 3804.
delayed response, motor activity, reticular formation, electrophysiological recording, rats 843.
drug effects, diazepam, memory, age effects, rats 972.
dung attractancy, *Enterolobium cyclocarpum* seeds, *Liomys salvini* 3952.
early experience, behavioral teratology, conferences 3375.
early experience effects on, social environment, mice 3887.
early experience effects on, undernutrition 2904.
early experience, play, exploratory behavior, *Mustela putorius*, *Mustela furo* 2918.
ESB effects on 4251.
evolutionarily stable learning rule, evolutionary genetics 500.
extinction, punishment, reinforcement, response acquisition, *Melipona quadrifasciata* antidiodes 2925.
feedback, biomechanics, heart rate, rabbits 762.
feeding behavior, ablation, brain, forebrain, *Carassius auratus* 343.
feeding behavior, food organisms, novelty, *Mimus polyglottos* 2720.
lead effects on, juveniles, rats 3228.
lead intrauterine exposure effects on, rats 4299.
lead, parasites effects on, mice 3229.
locus coeruleus stimulation, dorsal noradrenergic fibers lesions effects on, rats 911.
maze learning, gravity, artificial weightiness, rats 601.
memory, air ionization, rats, mice 613.
memory, apomorphine effects on, glycoprotein biosynthesis, hippocampus, rats 4337.
memory, immobilization, motor activity, rats 2988.
memory, neurophysiology, *Aplysia californica* 2984.
memory, neurophysiology, biochemistry 3115.
memory, novelty, age effects, mice 1825.
- Learning behavior, (continued)**
memory, song, *Melospiza georgiana* 3422.
memory, testosterone effects on, juveniles, chickens 3308.
memory, trimethyltin effects on, rats 4317.
memory, visual stimuli, population characteristics, *Drosophila* 1770.
methylmercury intrauterine exposure effects on, rats 4303.
motor activity, haloperidol effects on, mice 4379.
neurons physiology, *Carinus maenas* 815.
ontogeny, naloxone effects on, intrauterine exposure, rats 1611.
ontogeny, retinol intrauterine exposure effects on, rats 2912.
operant conditioning, reinforcement schedules, rats 1682.
Paraspea vulgaris 2963.
parental behavior, *Psilobius morio* 199.
performance, carbon monoxide effects on, intrauterine exposure, rats 1608.
performance, early experience effects on, rats 600.
phenylketonuria effects on, rats 1960.
plant extracts effects on, rats, *Bacopa monnieri* 2971.
prey odors, *Bufo boreas*, *Insecta* 1449.
protein deficiency effects on development, prenatal experience, rats 518.
protein deficiency effects on, diets, rats 1793.
reactivity, auditory stimuli, brain monoamines, rats 2223.
reinforcement, cognitive ability, sleep 768.
reinforcement, delayed response, conditioned response, *Cebus* 1599.
reinforcement, dogs 1705.
RNA biosynthesis, hippocampus, cortex, drug effects, ethymizol, rats 960.
sensory stimuli deprivation effects on, ducks 1602.
social behavior, behavioral genetics, evolution, sociobiology 2873.
social behavior, feeding behavior, *Papio ursinus*, *Cercopithecus aethiops* 1382.
social behavior, mother-offspring interactions, *Macaca mulatta* 1356.
spontaneous alternation, memory, rats 1783.
stimulus control, prey recognition, *Naja mossambica pallida* 3987.
toluene, effects on, operant conditioning, mice 3252.
triethyltin effects on, rats 2100.
visual stimuli, lesions effects on, amygdala, cortex (temporal), monkeys 3208.
- Leaves**, host plants, morphology effects on feeding behavior, *Adalia bipunctata* 2647.
plant extracts, antifeedants, *Thrips plicata*, *Pissodes strobi* 2638.
vibrations, communication, *Cupiennius salei* 1128.
- Leg**, morphology, locomotion, *Carabidae* 4069.
muscles, feedback control, *Carassius morosus* 687.
muscles, feedback control, electrophysiological recording, *Carassius morosus* 688.
- Lehmannia valentiana**, aversion response, conspecifics mucus secretions, stress 1529.
- Lek**, mating behavior, polygamy, social hierarchy, *Chiroxipha caudata* 1313.
- Lek behavior**, territorial behavior, males, *Pedioecetes phasianellus* 2358.
- Lemmus trimucronatus**, social rank, olfactory perception, conspecifics 1177.
- Lemon**, odors, olfactory preferences, nesting behavior, rats 4117.
- Lepidodactylus lugubris**, sexual reproduction, habitat preferences, Guam 2442.
- Lepidoptera**, escape behavior, webs, *Araneida* 440.
flight activity, night, surveys, USA, Colorado 1869.
flight activity, temperature effects 1866.
food organisms, predation, *Orthetrum austeni* 2631.
food preferences, predatory behavior, *Argiope brunneichii* 2611.
mating behavior, mate selection 2389.
- Lepomis cyanellus**, food organisms, ingestion, foraging behavior, predators, *Micropterus salmoides* 3691.
- Lepomis macrochirus**, feeding behavior, food organisms abundance effects on, zooplankton 3690.
feeding behavior, food organisms, *Daphnia pulex* 2668.
feeding behavior, habitat preferences 2672.
feeding behavior, operant conditioning, controlled conditions 534.
food organisms, ingestion, foraging behavior, predators, *Micropterus salmoides* 3691.
nesting behavior, brood care, predation effects on, colonial characteristics 2453.
predatory behavior, predator-prey interactions 2667.
- Lepomis macrochirus**, appetitive behavior, operant conditioning 2929.
- Leptazol**, side effects, acoustic startle response, rats 740.
- Leptinotarsa decemlineata**, body temperature, thermoregulatory behavior 2804.
- Leptoceridae**, drift, environmental effects, Australia, A.C.T., Condor Creek 433.
- Leptomyrax**, sympatric populations, resource utilization, activity patterns, feeding behavior 1549.
- Leptomyrax fragilis**, resource utilization, activity patterns, feeding behavior, nests 1549.
- Leptomyrax lugubris**, resource utilization, activity patterns, feeding behavior, nests 1549.
- Leptopithecus rosalia**, acoustic behavior, social interactions, scent marking behavior 3643.
- Leptothorax muscorum**, workers, sound production (biological), stridulation 1131.
- Leptothorax provancheri**, social organization, sexual behavior 1259.
- Lepus californicus**, feeding behavior, food preferences, diets, rangelands 2758.
- Lepus capensis**, food organisms, predation, feeding behavior, *Acipiter gentilis*, Sweden 1480.
- Lepus europaeus**, movements, radio-tagging 4428.
- Lesions**, amygdala, cortex, effects on taste aversion, nutrient deficiency sensitivity, rats 2027.
amygdala, cortex (temporal), effects on learning behavior, visual stimuli, monkeys 3208.

Lesions, (continued)

- amygdala, effects on emotional behavior, exploratory behavior, monkeys 2061
 amygdala, effects on novelty avoidance behavior, mice 4240.
 amygdala, feeding behavior, rats 4231
 amygdala, feeding behavior, satiety, hunger, rats 2036
 amygdala, hippocampus, effects on retention, fear conditioning, rats 4227
 amygdala, hippocampus, fear conditioning, memory, recovery of function, rats 3184
 amygdala, social behavior, juveniles, rats 886
 amygdala, 5-hydroxytryptamine, social behavior, aggressive behavior, rats 895
 anatomy, correlation, hyperstriatum, imprinting, chickens 835
 area postrema, dopamine, agonists, antagonists, rats 3149
 area postrema, effects on taste aversion learning, rats 508
 area postrema, effects on taste perception, palatability, food intake, rats 893
 basal ganglia, brain stem, effects on locomotor activity, pigeons 880
 brain, aggressive behavior, gentling, mouse killing, rats 2015
 brain, effects on avoidance behavior, mice 881
 brain, effects on discrimination learning, rats 595
 brain, hippocampus, locomotor activity, exploratory behavior, drug effects, kaenic acid, pharmacology, rats 901
 brain, hypodipsia, water, intake, rats, thirst 402
 brain, maze learning, intracranial chemical stimulation, saline water, rats 4271
 brain, nystagmus, monkeys 726
 brain, raphe nuclei, exploratory behavior, serotonin, rats 2225
 caudate nucleus, effects on learning behavior, rats 2016
 caudate putamen, rats, food intake, water intake, rats 3195
 colliculus, effects on feeding behavior, locomotor activity, rats 3202
 colliculus, effects on lateral posterior nucleus anatomy, hamsters 846
 corpus callosum, interocular transfer, visual perception, brain commissures, rats 899
 cortex (anteromedial), effects on orientation, approach behavior, rats 4241
 cortex (cingulate), discrimination, conditioning, vocalization behavior, social behavior, *Macaca mulatta* 804
 cortex (cingulate), effects on vocalization behavior, *Macaca mulatta* 913
 cortex, effects on feeding behavior, sensorimotor ability, rats 3198
 cortex, effects on maze learning, rats 888
 cortex (entorhinal), effects on learning behavior, mice 2044
 cortex (entorhinal), effects on open-field behavior, rats, cats 2030
 cortex (entorhinal), effects on operant conditioning performance, mice 611
 cortex (entorhinal), recovery of function, environmental effects, sensory stimuli, rats 2020
 cortex (frontal), neonates, effects on activity patterns, rats 2058
 cortex (inferotemporal), effects on visual perception, monkeys 727
 cortex (occipital), visual discrimination, visual perception, rabbits 3194
 cortex (prefrontal), age effects, behavior, rats 2035
 cortex (prefrontal), associative learning, *Macaca mulatta* 4250
 cortex (prefrontal), delayed response, retention, guinea pigs 903
 cortex (prefrontal), effects on avoidance learning, extinction, rats 3193
 cortex (prefrontal), effects on delayed response performance, rats 909
 cortex, schedule-induced behavior, polydipsia, rats 4238
 cortex (sensorimotor), recovery of function, tactile discrimination learning, rats 4239
 cortex (temporal), visual discrimination, discrimination learning, rats 2033
 cortex (visual), colliculus, orientation, rats 3203
 cortex (visual), effects on discrimination learning, early experience, sensory stimuli, cats 2056
 cortex (visual), effects on visual discrimination, rats 889
 cortex (visual), effects on visual perception, cats 4088
 cortex (visual), effects on visual perception, Galago 877
 cortex (visual), striate cortex, visual discrimination, monkeys 3209
 dorsal noradrenergic fibers, effects on learning behavior, rats 911
 dorsolateral pons, effects on nictitating membrane response conditioning, classical conditioning, rabbits 4233
 forebrain, effects on sexual behavior, spawning behavior, males, *Carassius auratus* 4219
 forebrain, effects on visual discrimination, *Salamandra salamandra* 3181
 forebrain, literature reviews, aggressive behavior, rats 882
 fornix, amnesia, short term memory, long term memory, monkeys 619
 hippocampus, classical conditioning, rabbits 4249
 hippocampus, cortex, effects on memory, rats 2041
 hippocampus, cortex (frontal), effects on spatial discrimination learning, rats 4237
 hippocampus, discrimination learning, neonates, rats 4229
 hippocampus, effects on exploratory behavior, habituation, rats 2032
 hippocampus, effects on exploratory behavior, memory, rats 2037
 hippocampus, effects on exploratory behavior rats 910
 hippocampus, effects on latent learning, rats 2017
 hippocampus, effects on maze learning, rats 3201
 hippocampus, effects on memory, maze learning, rats 2014
 hippocampus, grooming, ACTH effects on, rats 2031
 hippocampus, grooming, ACTH effects on, rats 2043
 hippocampus, intracranial recording, rats 2023
 hippocampus, paroxysmal activity, epilepsy, ESB, 5-hydroxytryptamine, rats 1996
 hippocampus, recovery of function, rats 2040
 6-hydroxydopamine, effects on stimulants, locomotor activity, rats 890
 6-hydroxydopamine, substantia nigra, intracranial chemical stimulation, AMPA, rats 795
 hypothalamus (dorsomedial), amygdala, effects on olfactory discrimination learning, rats 2045
 hypothalamus (dorsomedial), diets, nutrition, juveniles, rats 892
 hypothalamus (dorsomedial), effects on, food intake, body weight, rats 891
 hypothalamus, drinking behavior, rats 4195
 hypothalamus, effects on apagia, masseteric reflex, cats 4230
 hypothalamus, effects on food intake, rats 4242
 hypothalamus, effects on muricide, rats 4246
 hypothalamus, effects on predatory behavior, ESB, midbrain, rats 3188
 hypothalamus, estrogens, feeding behavior, body weight, rats 900
 hypothalamus, food intake, rats 4189
 hypothalamus, hyperphagia, insulin, rats 4155
 hypothalamus, hyperphagia, rats 2034
 hypothalamus (medial), effects on obesity, hyperreactivity, social environment role, rats 2028
 hypothalamus (medial), hyperphagia, atropine effects on, rats 2042
 hypothalamus (medial), septum, nucleus accumbens, effects on muricide, gentling 4247
 hypothalamus (ventromedial), effects on taste perception, food intake, rats 4221
 hypothalamus (ventromedial), hyperphagia, pheromone emission, maternal pheromone,

Lesions, (continued)

- rats 2025
 hypothalamus (ventromedial), midbrain, effects on sexual receptivity, rats 1334
 kaenic acid, caudate putamen, globus pallidus, enzymatic activity, substantia nigra, locomotor activity, rats 906
 limbic system, locomotor activity, drug effects, rats 3196
 locus coeruleus, 6-hydroxydopamine, effects on startle response, rats 3200
 medial forebrain bundle, foot shock sensitivity, 5-hydroxytryptamine depletion, avoidance behavior, rats 884
 midbrain, dopamine, locomotor activity, open-field behavior, rats 3175
 midbrain, effects on copulation, rats 908
 midbrain raphe nuclei, hormones, circadian rhythms, locomotor activity, rats 904
 neurophysiology, brain, motor activity, head, rats 1984
 nucleus intercollicularis, testosterone, implants, courtship, *Streptopelia risoria* 1317
 olfactory bulb, effects on exploratory behavior, mice 4224
 olfactory bulb, effects on olfactory perception, sleep and wakefulness, rats 4222
 olfactory bulb, muricide, irritability, open-field behavior, rats 3189
 optic tectum, visual stimuli, tactile stimuli, prey acquisition, *Rana pipiens* 2012
 para-fascicular region, maze learning, memory, rats 3197
 periaqueductal grey area, taste aversion, drug effects, morphine, rats 3186
 pons, effects on locomotor activity, running, rats 894
 pons, rhythms, seasonal variations, grooming, photoperiods, cats 1939
 pons, sleep and wakefulness, atonia, exploratory behavior, cats 3114
 preoptic area, recovery of function, copulation, rats 4244
 raphe nuclei, drug effects, clonidine, avoidance behavior, locomotor activity, rats 970
 resuiform body, effects on nictitating membrane response conditioning, rabbits 4228
 reticular formation, effects on habituation, startle response, licking behavior, rats 3205
 septum, aggressive behavior, social environment effects on, mice 4248
 septum, aggressive behavior, tryptophan, diets, rats 2022
 septum, behavioral contrast, punishment, suppression, rats 887
 septum, defensive behavior, flight, cats 2018
 septum, discrimination learning performance, stimulus preexposure, rats 4007
 septum, effects on avoidance learning, rats 580
 septum, effects on drinking behavior, alcohol, rats 4226
 septum, effects on maze learning, rats 3192
 septum, effects on, social behavior, attack, rats 3199
 septum, hippocampus, maze learning, memory, cognitive mapping, rats 4236
 septum, intraspecific relationships, aggressive behavior, males, hamsters 883
 spinal cord, effects on motor activity, cats 1983
 stereotyped behavior, rats 948
 strata terminalis, cortex (gustatory), conditioned response, taste aversion, retention, rats 2021
 striate cortex, effects on intracranial self-stimulation, substantia nigra, tegmentum, rats 4258
 striate cortex, effects on locomotor activity, mice 957
 striate cortex, neurons, substantia nigra, sensitivity, neurotransmitters, rats 3157
 substantia nigra, caudate putamen, reticular formation, effects on maze learning, rats 3187
 substantia nigra, conditioned response, feeding behavior, defensive behavior, rats 2019
 substantia nigra, dopamine levels, effects on intracranial self-stimulation, rats 4243
 substantia nigra, dopamine, neurotransmitters, rotation, grafting, adrenal chromaffin cells, rats 896
 substantia nigra, effects on activity patterns, turning, rats 3191
 Substantia nigra, effects on stereotyped behavior, rats 898
 suprachiasmatic nucleus, feeding behavior, circadian rhythms, rats 3204
 tectum, effects on maze learning, rats 3185
 tegmentum connections, effects on avoidance learning, rats 2024
 telencephalon, effects on arousal, habituation, *Rutilus rutilus* 3182
 telencephalon, effects on motor activity, metabolism, rats 912
 telencephalon, operant response, feeding behavior, pigeons 2013
 thalamic mediodorsal nucleus, mamillary bodies, effects on acquisition, spatial discrimination learning, rats 4245
 thalamus, drug effects, 6-hydroxydopamine, activity patterns, rats 998
 ventricle (third), effects on water intake, sheep 4232
 ventricles (third), subfornical organ, drinking behavior, rats 3206
 zona incerta, effects on feeding behavior, taste perception, rats 4235.
- Lesites vigilax,**
 mating behavior, males, sperm displacement, bursa copulatrix 3506
- Lethality,**
 genes, effects on mating behavior, *Drosophila melanogaster* 2877.
- Leuciscus leuciscus,**
 conditioned response, electric currents, threshold sensitivity 3080
- Leucoma candida,**
 abundance, predation effects on, *Passer montanus* 370.
- Levodopa-carbidopa,**
 chronic effects, haloperidol behavior sensitivity, guinea-pigs 3289.
- Levorphanol,**
 drug self-administration, modification, interference, metabolism, 5-hydroxytryptamine, catecholamine, rats 4168.
- Lichmera indistincta,**
 feeding behavior, food intake short-term regulation, feeding duration 377.
- Licking behavior,**
 behavioral contrast, operant conditioning, rats 1678
 conditioned suppression, classical conditioning, rats 2951
 conditioned suppression, signals, rats 1687
 conspecifics, pheromones, *Sceloporus occidentalis biseriatus* 3614
 drug effects, apomorphine, methamphetamine, rats 2127
 drug effects, pimozone, rats 2123
 fluid intake, measuring techniques, rats 4433
 habituation, hippocampus lesions effects on, rats 2032
 habituation, reticular formation lesions effects on, rats 3205
 mother-offspring interactions, maternal behavior, urine consumption, rats 2549.
- Lidocaine,**
 drug effects, locomotor activity, open-field behavior, rats 2165
 effects on nursing, tactile stimuli, rats 1352

- Life cycle**, colonial characteristics, aggressive behavior, reproductive behavior, *Eriophora bistriata* 214.
development, population dynamics, Mammalia, chemotaxis, hosts, Simuliidae, Mammalia 645.
feeding behavior, larvae, *Pelina truncatula*, *Cylindropermum* 1401.
flight activity, sensory stimuli, *Hypera postica* 4067.
migrations, *Coregonus artedii*, *Coregonus clupeaformis*, Canada, James Bay 648.
- Life history**, breeding, temperature effects, *Capimulgus europaicus* 175.
brood care, feeding, *Ancistrocerus adiabatus*, *Eudomynerus foraminatus* 1257.
mating behavior, feeding behavior, *Sphodros abboti*, *Sphodros rufipes* 2889.
mating behavior, oviposition, development, *Langus retentor* 139.
nesting behavior, colonial characteristics, *Bembix ioyensis* 2519.
reproductive behavior, *Lycosa pseudoannulata* 2888.
reproductive behavior, *Mastophora dizzeyana* 1523.
reproductive behavior, social interactions, *Passeriformes* 177.
sexual behavior, nesting behavior, *Copris lunaris* 1289.
- Life span**, demography, brain size effects on, *Didelpidae* 790.
- Light**, color, visual stimuli, vision, adaptations 701.
cues, associative learning, shock, avoidance behavior, rats 1749.
effects on motor activity, stereotyped behavior, neurophysiology, *Aplysia californica* 4182.
effects on predatory behavior, foraging behavior, *Abramis brama* 3692.
factors affecting, host searching behavior, *Neoplectana carposcapes* 3776.
flight, diurnal variations, *Helicoverpa armigera* 3097.
locomotor activity, photokinesis, photokineme, *Tribolium castaneum*, *Tribolium confusum* 3001.
operant response, temporal discrimination, rats 1826.
polarization, visual perception, *Trialeurodes vaporariorum* 4079.
polarization, orientation, *Apis mellifera* 4035.
polarization, orientation, navigation behavior, *Apis mellifera mellifera* 4037.
polarization, role, navigation behavior, *Coriidae* 1841.
prenatal experience, brain function asymmetry, chickens 3144.
sensitivity, compound eyes, ultraviolet radiation, light traps, *Spodoptera exigua*, *Spodoptera frugiperda* 712.
sensitivity, electroretinograms, diurnal variations, pigeons 720.
visual perception, polarization, *Teleostei* 715.
visual stimuli, effects on taste perception sensitivity 1900.
wavelength effects on phototaxis, *Dendroctonus pseudotsugae*, *Trypodendron lineatum* 1883.
- Light effects**, activity patterns, thermoregulatory behavior, *Testudo graeca* 462.
arousal, *Saimiri* 741.
circadian rhythms, behavior, retina, *Cichlasoma citrinellum* 755.
circadian rhythms, wheel running, photoreceptors, *Onychomys leucogaster*, *Spermophilus lateralis* 760.
collocation, crop protection barriers, behavior, *Myzus persicae* 1410.
locomotor activity, functional morphology, *Amoeba proteus* 678.
photoperiods, reproductive behavior, egg laying, *Lagopus lagopus* 178.
pineal gland, enzymatic activity, drug effects, α -bungarotoxin, suprachiasmatic nucleus, circadian rhythms, rats 764.
swimming behavior, water flow velocity, juveniles, *Salmo trutta*, *Salmo salar* 469.
- Light intensity**, mating behavior, females calling behavior, males response, *Chilo suppressalis* 1287.
methodology, electronic equipment 1070.
migrations, *Nemobius sylvestris* 636.
operant conditioning, preferences, light, dark, sheep, cattle 1102.
phototaxis, *Salientia* 4042.
soil, burrowing behavior, pits construction, *Myrmelion immaculatus* 2801.
visual discrimination learning, *Apis mellifera* adansonii, *Melipona quadrifasciata* anthidioides, *Melipona rufiventris* 2961.
visual perception, compound eyes, *Cirrolana borealis* 3050.
- Light traps**, compound eyes, light sensitivity, *Spodoptera exigua*, *Spodoptera frugiperda* 712.
- Ligia indica**, reproductive behavior, seasonal variations 3490.
- Ligyrocoris diffusus**, courtship, stridulation, calling behavior, males 1250.
- Limax**, sympatric populations, spatial distribution, aggregation, resting behavior 1216.
- Limax flavus**, circadian rhythms, locomotor activity, photoperiods 747.
sympatric populations, spatial distribution, aggregation, resting behavior 1216.
- Limax marginatus**, sympatric populations, spatial distribution, aggregation, resting behavior 1216.
- Limax maximus**, circadian rhythms, locomotor activity, photoperiods 747.
sympatric populations, spatial distribution, aggregation, resting behavior 1216.
- Limax pseudoflavus**, sympatric populations, spatial distribution, aggregation, resting behavior 1216.
- Limbic system**, dopamine systems, 3,3',5'-triiodothyronine, effects on synapses function, rats 4350.
intracranial chemical stimulation, progesterone, lordosis behavior, females, rats 1040.
leptons, locomotor activity, drug effects, rats 3196.
RNA biosynthesis, DNA biosynthesis, reflexes conditioning effects on, rabbits 786.
role, aggressive behavior, cats 4270.
role, cognitive ability, memory, rats 2037.
role, memory, learning behavior, trimethyltin effects on, rats 4317.
- Linaea**, physical activity, drug effects, pilocarpine, cats 2155.
walking, coordination, *Deiters'* neurons, activity, cats 3046.
walking, coordination, electromyographic activity, ablation, cerebrum, cats 3047.
- Limiting factors**, nests, habitat preferences, agonistic behavior, *Apis mellifera* 57.
- Limosa limosa**, nesting behavior, aggregation behavior, anti-predator behavior 3811.
- Linyphiidae**, foraging behavior, strategy, webs, site location 2610.
- Liomys salvini**, learning behavior, dung attractancy, *Enterolobium cyclocarpum* seeds 3952.
- Lipeurus lawrensis tropicalis**, oviposition, reproductive behavior, environmental effects 2390.
- Lipids**, cuticle, mating behavior deterrents, *Glossina morsitans morsitans* 3516.
- Lipophrys pholis**, behavior, emergence, environmental conditions, oxygen depletion 468.
- Liris argentata**, nesting behavior, overwintering 1552.
- Lissemys punctata punctata**, courtship, mating behavior, India, L. Mansar 148.
- Lissodelphis peronii**, feeding behavior, food preferences, diurnal variations, Chile Coast 393.
swimming behavior, aggregation behavior, Marion Islands, Benguela current 1569.
- Literature reviews**, forebrain lesions, attack, defense, rats 882.
- Lithium**, drug effects, amphetamine depression, self-stimulation, substantia nigra, rats 1003.
drug effects, circadian rhythms, photoperiods, wheel running, rats 1938.
drugs, hyperactivity, inducers, rats 994.
effects on attention selectivity, rats 2148.
effects on motor activity, stimulants response, mice 1015.
effects on social behavior, perception, memory, *Pisces* 3222.
effects on taste aversion learning, rats 4338.
isotopes, effects on motor activity, mice 4286.
lead effects on polydipsia, induction, juveniles, rats 3256.
stereotyped behavior, open-field behavior, exploratory behavior, rats 1112.
toxicosis, nutrient deficiency, recovery, thiamine, taste aversion learning, rats 1727.
- Lithium chloride**, avoidance behavior, aversion learning, predation, *Canis latrans* 1732.
diets, feeding behavior, growth, aversion, bait shyness, *Canis latrans* 391.
drug effects, food intake, taste aversion, saccharin, rats 977.
drug effects, taste aversion, *Rattus rattus* 962.
effects on circadian rhythms, flight activity, *Taphozous melanopogon* 4367.
effects on stereotyped behavior, rats 3325.
effects on taste aversion learning, pigeons 1719.
food organisms, taste aversion learning, *Bufo americanus* 2947.
taste aversion learning, obesity, mice 1767.
taste aversion learning, rats 2953.
taste aversion, taste preferences, conditioned response, intracranial self-stimulation, rats 4115.
- Litoranulus walleri**, territorial behavior, scent marking behavior 3478.
- Litodactylus leucogaster**, biology, feeding behavior, geographical distribution, laboratories 1420.
- Littoral zone**, activity patterns, diurnal variations, *Littorina intermedia*, India Coast 1530.
activity patterns, tidal rhythm, *Pagurus geminus* 3770.
feeding behavior, *Sterna hirsuta* 2721.
orientation, flight activity, inheritance, *Talitridae* 2995.
orientation, habitat, *Talitrus saltator* 2996.
- Littorina intermedia**, activity patterns, diurnal variations, littoral zone, India Coast 1530.
- Littorina unifasciata**, intraspecific relationships, competition, zonation, body size 1527.
- Liver**, weight, rearing effects on, rats 3119.
- Livestock**, activity patterns, pests effects on, *Haemaphysa irritans* 2209.
approach behavior, withdrawal response, reproduction, *Sus* 1100.
cattle, stress, heart rate, measuring techniques 4481.
grazing, walking, effects on, reproductive behavior, cattle 2207.
handling, environmental factors, ethology, sheep 1101.
operant conditioning, light intensity preferences, light, dark, sheep, cattle 1102.
pests feeding, effects on avoidance behavior, grazing, cattle, *Musca autumnalis* 4453.
- Loading**, effects on locomotor activity, *Procambarus clarkii* 674.
- Localization**, auditory perception, neonates 1928.
calling behavior, sound production (biological), *Cebulella pygmaea* 1186.
food organisms, predatory behavior, chemotaxis, *Crotalus viridis*, *Mus musculus* 1445.
sound, auditory perception, early experience effects on, *Tyto alba* 3082.
sound, auditory perception, predatory behavior, *Tyto alba* 3081.
- Loxosomella**, activity patterns, fluphenazine decanoate effects on, mice 4289.
aerodynamic properties, flight, *Calliphora erythrocephala* 686.
aquatic environment, terrestrial environments, walking, swimming, *Odobenus* 1875.
arousal, cortex, nerve transmission, skin 812.
behavior, cytology, *Porifera* 3030.
bipedalism, evolution, aquatic environment, man 3856.
climbing, walking, *Choleopus hoffmanni* 3048.
comparison, *Trochosa ruficola*, *Lycosa tarentula* 685.
drug effects, triptophan, rats 2154.
effects on neurons polarization, spinal cord, rats 844.
efficiency, predatory behavior, *Notonecta* 3038.
energetics, energy conservation, feeding behavior, birds 372.
energetics, *Ursus maritimus* 3045.
environmental effects, grazing, *Paracentrotus lividus* 274.
ergotamine, ergometrine, effects on, dopamine receptors, *Helix pomatia* 4279.
films, analysis, *Arthropoda* 1085.
functional morphology, cilia, *Ciliata* 3031.
hydrodynamics, *Amoeba proteus* 4066.
jumping, bone biomechanics, hip, thigh, functional morphology, *Prosimii* 806.
mathematical models, *Anolisma columbianus* 675.
mating effects on, females sexual behavior, *Telegryllus commodus* 1292.
mechanical properties, *Ostrocione lentiginosum* 3041.
motility, gravity effects on, *Naegleria gruberi* 676.
motility, measuring techniques, microorganisms 4422.
motor activity control, muscles, nerves, cats 696.
movements, roads effects on, *Odocoileus hemionus* 490.

Locomotion, (continued)

- nervous system, *Jasus lalandii* 1860
 neurophysiology, rats 3148
 neurophysiology, Purkinje cells, cerebellum, vermal zones, rats 3168
 ontogeny, walking, infants 1877
 orientation, Arthropoda 2994
 orientation, sex pheromone effects on, *Periplaneta americana* 2256
 patterns, gait, energy conservation, horses 697
 physical activity, drug effects, morphine, conditioning, rats 950
 running, morphology, leg, *Carabidae* 4069
 stereotyped behavior, brain lesions, hippocampus, *Rattus norvegicus* 885
 stereotyped behavior, drug effects, morphine, sociological aspects, mice 1009
 stereotyped behavior, instruments, sensors, rats 1093
 substrate preferences, Anthozoa 670
 swimming, activity patterns, *Oxytricha bifaria* 3028
 swimming behavior, larvae, *Engraulis mordax* 3042
 swimming, environmental effects, *Citharichthys stigmatus* 1871
 tool use, fossils, man 3855
 vagina,
 visual perception, *Sula bassana* 3055
 walking, evolution, Homindae 3857
 walking, evolution, man 3854
 walking, *Perodicticus potto* 1876
 walking, visual discrimination, visual perception, *Drosophila melanogaster* 708
- Locomotor activity,**
 activity patterns, exploratory behavior, *Rattus norvegicus*, *Acromys cahirinus* 3362
 activity patterns, habitat, social environment, isolation, rats 1571
 activity patterns, reinforcement, cats, odor trials, rats 1679
 aggressive behavior, intracranial chemical stimulation, 5-hydroxytryptamine, mice 847
 albinism, genes, inbreeding, mice 1588
 alcohol induction, drugs effects on, mice 967
 aluminum, parathyron effects on, rats 4295
 amphetamine effects on, 5-hydroxytryptamine, dopamine levels, rats 4192
 d-amphetamine intrauterine exposure effects on, rats 4301
 amphetamine isomers effects on, neonates, rats 4366
 amygdala lesions effects on, rats 3190
 arousal, amphetamine, hormones effects on, rats 1002
 avoidance behavior, drug effects, clonidine, lesions, raphe nuclei, rats 970
 avoidance behavior, predator-prey interactions, *Halobates robustus* 1555
 avoidance learning, learning behavior, *Carcinus maenas* 559
 balance, tails length, *Saimiri*, monkeys 699
 basal ganglia lesions effects on, pigeons 880
 blood vessels mechanoreceptors effects on, brain, rats 1985
 brain, hippocampus, lesions, drug effects, kainic acid, pharmacology, rats 901
 cadmium effects on, rats 4300
 chronic effects, phenylchloride, age, juveniles, cats 1008
 chronic exposure, apomorphine, effects on, rats 849
 chronic exposure, lead, food deprivation, effects on, rats 1598
 circadian rhythms, *Achatina fulica* 3091
 circadian rhythms, *Bulinus africanus* 4135
 circadian rhythms, circannual rhythms, environmental effects, *Carduelis spinus* 1946
 circadian rhythms, entrainment, photoperiod, *Pterostichus nigrita* 3098
 circadian rhythms, environmental effects, *Hemideina thoracica*, New Zealand 3094
 circadian rhythms, feedback models, light effects, temperature effects, *Hemideina thoracica* 751
 circadian rhythms, hormones, lesions, midbrain raphe nuclei, rats 904
 circadian rhythms, mutants, mice 3106
 circadian rhythms, optic nerve, neurophysiology, *Bursatella leachi* plei 3089
 circadian rhythms, pacemakers transplantation, *Acheta domesticus* 3096
 circadian rhythms, photoperiod, hamsters 3105
 circadian rhythms, photoperiods, *Limax maximus*, *Limax flavus* 747
 circadian rhythms, photoreceptors, *Alligator mississippiensis* 753
 circadian rhythms, running, photoperiods effects on, *Periplaneta americana* 752
 circadian rhythms, sleep, DSP effects on, rats 1962
 circadian rhythms, temperature effects, *Hemideina thoracica* 750
 circadian rhythms, testosterone effects on, *Coturnix japonica* 3100
 circadian rhythms, vertical migrations, *Anisogammarus annandalei*, *Anisogammarus jesoensis* 3090
 circannual rhythms, circadian rhythms, photoperiod, sexual reproduction, *Helix aspersa* 748
 clonidine effects on, mediation, postsynapse α_2 -adrenergic receptors, rats 4346
 clonidine effects on, temperature effects, rats 698
 colliculus lesions effects on, rats 3202
 comfort behavior, excitation, 4-aminopyridine effects on, horses 2093
 conditioned response, neurophysiology, globus pallidus, striate cortex, rabbits 3172
 convulsions, kynurenine metabolites effects on, rats, mice 4345
 depression, phenobarbital effects on, mice 2111
 display, song, mate selection, *Zonotrichia leucophrys oriantha* 3399
 diurnal variations, measuring techniques, *Thanasimus dubius* 4198
 dopamine control, nucleus accumbens, oxotremorine effects on 4198
 dopamine effects on, rats 4207
 drug effects, benzerazide, chronic exposure, neurotransmitters, L-DOPA, mice 791
 drug effects, bromocriptine, 6-hydroxydopamine, juveniles, rats 2167
 drug effects, cocaine, procaine, lidocaine, rats 2165
 drug effects, cytidine diphosphate choline, dopamine neurons degeneration, rats 1007
 drug effects, neurotransmitters, nucleus accumbens, rats 942
 early experience, huddling, rats 3880
 electrophysiological recording, feedback control, leg muscles, *Carassius morosus* 688
 endrin effects on, rats, hamsters 951
 enkephalin analogues effects on, strains, mice 2112
 environmental effects, relative humidity, photoperiods, *Locusta migratoria* 3170
 ESB, *Katsuwonus pelamis* 692
 exploratory behavior, inbreeding, hybrids, mice 4465
 exploratory behavior, sleep (paradoxical), atonia, cats 3114
 feedback control, leg, muscles, *Carassius morosus* 687
 feeding behavior, environment recognition, horses 3347
 feeding behavior, optimization, *Oreaster reticulatus* 268
 feeding behavior, social behavior, *Aotus trivirgatus* 3869.

Locomotor activity, (continued)

- flagella, association, chemotaxis, role gene che, *Escherichia coli* 3843
 flight control, antennae, aerodynamic properties, *Agelaius urticae* 3035
 flight control, antennae, aerodynamic properties, *Agelaius urticae* 3036
 fluphenazine decanoate, amphetamine effects on, rats 4340
 food sources orientation, foraging behavior, *Rhodnius prolixus* 2651
 foraging behavior, food availability, Copepoda 2620
 functional morphology, ablation, *Amoeba proteus* 677
 functional morphology, chemical stimuli, light effects, *Amoeba proteus* 678
 giant axons effects on, *Procambarus* 818
 habituation, cattle 2210
 homovanillic acid effects on, rats 2088
 6-hydroxydopamine lesions, stimulants, rats 890
 hyperactivity, drugs, lithium, amphetamine, inducers, rats 994
 inupramine effects on, dogs 1014
 intracranial chemical stimulation, nucleus accumbens, dopamine, *Saimiri sciureus* 2011
 intrauterine exposure, nicotine, methamphetamine, rats 3243.
 juveniles, *Choropsis libanensis*, Ivory Coast 2551
 juveniles, metamorphosis, *Macrobrachium rosenbergi* 4065
 kainic acid lesions, caudate putamen, globus pallidus, glutamic acid decarboxylase, substantia nigra, rats 906
 kainic acid lesions, caudate putamen, globus pallidus, glutamic acid decarboxylase, substantia nigra, rats 906
 learning effects on, mediation, rats, mice 4332.
 lead, d-amphetamine effects on, rats 3241
 limbic system lesions, drug effects, rats 3196
 loading effects on, *Procambarus clarkii* 674
 maturation, prednisolone intrauterine exposure effects on, mice 4292.
 maze learning, retention, gravity, space flight, rats 2981.
 mechanisms, electrical stimulation, neurons, *Tetradina* 915.
 methodology, chickens 3337
 migrations, diel variations, light intensity, feeding behavior, *Nemobius sylvestris* 636
 neonates, chemical stimuli, males urine, mice 3593.
 neonates, paternal effects, mice 3883
 ontogeny, N-antroto-N-ethylurea effects on, intrauterine exposure, rats 2914.
 open-field behavior, apomorphine, amphetamine effects on, rats 987.
 open-field behavior, dopamine effects on, rats 3175.
 open-field behavior, elimination behavior, rats 3360
 open-field behavior, monitoring methodology, Television, rats 2202.
 orientation, sequence, cow entry order, milk production, yield, cattle 1854.
 PCB effects on, *Macaca mulatta* 4326.
 phenylchloride behavior, dopamine, haloperidol, apomorphine, rats 1012.
 photokinesis, photokinesis, *Tribolium castaneum*, *Tribolium confusum* 3001.
 picrotoxin effects on, rats 4352
 pineal eye role, larvae, *Xenopus laevis* 4080
 pinbedi, rats 939
 predatory behavior, Esos, niger 2678
 quipazine effects on, mediation, dopamine receptors, 5-hydroxytryptamine receptors, locomotor activity 4343.
 rats, desipramine effects on 933
 reinforcement schedules, hoarding behavior, hamsters 3943.
 reproductive behavior, circadian rhythms, estrus, rats 3104.
 restlessness, rooting behavior, environmental factors, sunlight, social environment, *Turdus migratorius* 2836
 rhythms, feeding behavior, *Sesamia cinereum*, *Sesamia reticulatum* 3769.
 running, pons lesions effects on, rats 894
 scopalamine effects on, age, rats 4347.
 settling behavior, host plants, *Aphis citricola*, *ovatus malisuctus* 453.
 sleep and wakefulness, rhythms, rats 3112.
 social environment, isolation, effects on, antidepressants 523.
 solvents, effects on, temporal perception, operant conditioning, rats 514.
 stereotyped behavior, apomorphine, rats 3299
 stereotyped behavior, chemoreceptors, septum, dopamine drugs, rats 850.
 stimulants, striate cortex lesions effects on, mice 957.
 substrate preferences, Anthozoa 670
 substrate specificity, chemotaxis, *Nagleria gruber* 630
 swimming behavior, rhythms, *Sarsia tubulosa* 4129.
 swimming, feeding behavior, respiration, controlled conditions, *Brevortia tyrannus* 346
 thyrolibern effects on, goats 4407
 tolerance, drug effects, chronic administration, amphetamine, nucleus accumbens, rats 985
 tranlylcypromine, effects on, reserpine, rats 1004.
 walking, pain effects on, horses 4454
 wheel running, alcohol effects on, rats 2103.
 wheel running, circadian rhythms, photoperiods, drug effects, lithium, rats 1938.
 zooplankton, Crustacea 671
- Locust coeruleus,**
 ablation, avoidance learning, scopalamine, noradrenaline, rats 571.
 6-hydroxydopamine lesions, effects on startle response, rats 3200.
 stimulation, effects on learning behavior, rats 911.
- Locusta migratoria,**
 feeding behavior, diurnal variations, photoperiod 3676.
 flight activity, velocity, wing-beat frequency 1868
 vibratory stimuli, mechanoreceptors, neurophysiology 1909.
- Locusta migratoria migratorioides,**
 environmental effects, relative humidity, photoperiods, locomotor activity, flight activity 1547
 flight activity, velocity 4068
- Loisgo pealei,**
 feeding behavior, diets 2603
 sexual reproduction, reproductive behavior 2388.
- Long term memory,**
 fornix lesions, amnesia, monkeys 619
- Longevity,**
 hibernation behavior, aging, *Mesocricetus brandti* 773.
- Lophogobius cyprinoides,**
 diets, feeding behavior 2671
 feeding behavior, diets, Florida Coast 1459.
- Lophyrolepis luteator,**
 host searching behavior, egg laying, population density, hosts, *Neodiprion sertifer* 2428
- Lordosis,**
 carbacol effects on, rats 3146.
 sex hormones, 2-hydroxyestradiol, 4-hydroxyestradiol, ovary, ablation, rats 1048.

- Lordosis behavior**,
 drug effects, estrogen, progesterone, rats 4380.
 estradiol, activation, rats 1335.
 hormones effects on, rats 1055.
 hormones effects on, rats, mice 2177.
 2-hydroxyestron, 2-hydroxyestradiol effects on, rats 4409.
 hypothalamus (ventromedial), midbrain lesions, estrogens, rats 1334.
 inhibition, prolactin, hyperprolactinemia, rats 1339.
 intracranial chemical stimulation, limbic system, progesterone, females, rats 1040.
 mating behavior, sexual receptivity, sex hormones, LHRH analog, rats 1338.
 nutrient deficiency, rats 3566.
 pargyline, inhibition, amine oxidase (flavin-containing), hypothalamus, rats 4446.
 sexual behavior, androgens effects on, rats 3328.
 sexual behavior, estrogens effects on, females, *Mesocricetus auratus* 3321.
 sexual behavior, GTP effects on, rats 4176.
 sexual behavior, olfactory stimuli, males, rats 3555.
 sexual behavior, sex hormones, rats 3317.
 testosterone effects on, septum, rats 4412.
 testosterone implants, hypothalamus, females, hamsters 1053.
- Loxodonta africana**,
 aggressive behavior, musth, males 3459
- LSD**,
 effects on visual discrimination learning, rats 4354.
- Lucilia cuprina**,
 females reproductive behavior, attractants 10.
- Luciocephalus pulcher**,
 predatory behavior, suction feeding, functional morphology, jaw 1464.
- Luliberin**,
 effects on sexual behavior, males, rats 3327
- Lumbricus rubellus**,
 food organisms, diets, *Meles meles*, food availability 1497.
- Lumbricus terrestris**,
 escape behavior, neurophysiology, tails 1976.
 food organisms, diets, feeding behavior, *Meles meles*, British Isles, Scotland 1497.
- Lunar rhythm**,
 bioluminescence, spawning behavior, *Odontostylis enopla* 703.
- Luscinia megarhynchos**,
 territorial behavior, song, vocalization behavior, horizontal distribution, distance 232.
- Luteinizing hormone**,
 plasma levels, testosterone, sexual behavior, rats 189.
- Lutra lutra**,
 feeding behavior, food preferences 2750.
 feeding behavior, interspecific relationships, *Mustela vison*, British Isles 380.
- Lutropin**,
 plasma levels, locomotor activity, circadian rhythms, photoperiod, hamsters 3105.
 risk, motor activity, rest-activity cycle, sheep 3318.
- Lybius torquatus**,
 song, vocalization, auditory communication, sound production (biological) 1169.
- Lycan pictus**,
 mating behavior, scent marking behavior 188.
 natural selection, breeding success, parental behavior 2544.
- Lycosa pseudoannulata**,
 reproductive behavior, life history 2888.
- Lycosa tarentula**,
 companion, locomotion, *Trochosa ruricola* 685.
- Lygaeidae**,
 flight activity, seasonal variations 1865.
- Lygaeus equestris**,
 mounting behavior, copulation, competition 1290.
- Lygocoris communis**,
 chemical communication, sex pheromone 3390.
- Lygus hesperus**,
 oviposition, genotypes, host plants 1249.
- Lymantria dispar**,
 sex pheromone, pheromone emission, periodicity 2260.
- Lymantria dispar**,
 copulation duration, γ -radiation effects on 119.
 sex pheromone, pheromone emission, neurophysiology 3138.
 silk, exploratory behavior, parasites, exposure time, diurnal variations, *Apanteles melanoscelus* 450.
- Lymantria monacha**,
 larvae feeding behavior, environmental effects 305
- Lymantria stagnalis**,
 geotaxis, orientation 4034.
 nervous system effects on feeding behavior 817.
- Lymantria tricalcula**,
 oviposition, copulation 101.
- Lynx pardina**,
 feeding behavior, food preferences, Spain 379.
- Lynx subita**,
 nesting behavior, habitat, oviposition 2416.
- Lyrurus tetrix**,
 crop content, feeding behavior, seasonal variations, diel variations 2694.
- Lyssstroemia anthosticta**,
 feeding behavior, stimulants, food preferences 277.
- Lysine**,
 metabolites, effects on sleep, hexobarbital, rats 3125.
- Lytechinus variegatus**,
 feeding behavior, food preferences 2616
- Macaca**,
 isolation effects on social behavior 1629.
- Macaca arctoides**,
 copulation, observation methods, sampling 4438.
 visual discrimination learning, movements, eye 1797.
- Macaca fascicularis**,
 feeding behavior, foraging behavior, habitat utilization 3763.
 sexual behavior, maternal behavior, aggression, infanticide, sociological aspects 194.
 social environment, sexual behavior, social interactions, social organization
- Macaca fascicularis**, (continued)
 3644.
 social rank, dominance, replacement, males 2378.
- Macaca fuscata**,
 activity patterns, time allocation, social behavior, groups 247.
 aggressive behavior, population density effects on, seasonal variations, sex differences 79.
 aggressive behavior, sex differences, population density effects on 3460.
 display, social interactions, mate selection 51.
 laboratory animals, feeding behavior, food intake, water intake 415.
 males, aggressive behavior, sexual behavior, seasonal variations, dominance, social interactions 193.
 mother-offspring interactions, grooming, tool use 4486.
 mother-offspring interactions, maternal behavior, aggression 1358.
 play, mother-offspring interactions, social rank 2234.
 sexual behavior, mother-offspring interactions, social interactions, groups 3574.
 social organization, population structure 3639.
 taste aversion conditioning, avoidance learning 2958.
 vocalization behavior, sex differences, age 3441.
- Macaca fuscata fuscata**,
 grooming, diurnal variations 3648.
 self-punitive behavior, wrist biting 4474
- Macaca mulatta**,
 age, sexual behavior, sex hormones 2511.
 aggressive behavior, inhibition, drugs, buspiron 1031.
 aggressive behavior, social behavior, sex differences 2342.
 agonistic behavior, sex differences, hormones effects on 873.
 agonistic behavior, sex differences, hormones effects on 873.
 amygdala lesions effects on exploratory behavior, emotional behavior 2061.
 anticholinergic compounds, atropine, benactyzine, scopolamine, effects on schedule-induced behavior 4388.
 associative learning, cortex (prefrontal) lesions 4250.
 behavior maintenance, operant response, drug effects, codeine, ketamine 1023.
 cortex (prefrontal), unit activity, short term memory, vision, reinforcement 3180.
 delayed response, preferences, multiple choice 618.
 demography, population regulation, reproductive behavior 2510.
 discrimination, conditioning, vocalization behavior, social behavior, lesions, cortex (cingulate) 804.
 discrimination learning, preferences, retention, reinforcement 1709.
 drug effects, codeine, antagonists, naltrexone, operant response, behavior maintenance 1027.
 drug effects, methaqualone, social behavior, sexual behavior 1024.
 drug effects, naltrexone, narcotics antagonists, feeding behavior 1025.
 drug self-administration, intracranial implantation, amphetamine 1029.
 epilepsy, cortex neurotransmission, operant conditioning 803.
 fear conditioning, effects on adrenaline plasma levels 2231.
 fear conditioning, effects on heart rate 2229.
 feeding behavior, food intake regulation, calories dilution 416.
 food intake, satiety, role, small intestine 1970.
 handedness, cerebral dominance 516.
 infanticide, males fitness, social rank 1214.
 infants, separation effects on distress, hydrocortisone plasma levels 209.
 juveniles, emotional behavior, social interactions, depression, agitation 1103.
 learning behavior, social behavior, mother-offspring interactions 1356.
 learning, effects on brain organization 876.
 males, sexual behavior, sex hormones, testosterone 1059.
 menstrual cycle, aggressive behavior 2343.
 mother-offspring interactions, Δ -9-tetrahydrocannabinol effects on 2553.
 mother-offspring interactions, effects on hydrocortisone plasma levels 210.
 mother-offspring interactions, emotional behavior effects on 1357.
 motor activity, brain, metabolic rate, glucose 874.
 neurophysiology, drugs, measuring techniques, intracranial injections, pharmacology 1096.
 olfaction, sexual behavior, sex pheromone 3440.
 parturition behavior, groups, Nepal, Kathmandu 3582.
 PCB effects on locomotor activity 4326.
 play, mother-offspring interactions, nervous system development 1114.
 reproductive behavior, seasonal variations, mating, sexual receptivity 3580.
 sexual behavior, age effects on 2513.
 sexual behavior, social behavior, sex hormones effects on 2514.
 social behavior, isolation effects on 1379.
 social behavior ontogeny, mother-offspring interactions 2593.
 social behavior ontogeny, social rank, mother-offspring interactions 2592.
 social rank, breeding success, temporal variations, birth 3484.
 social rank, offspring 3485.
 social structure, social behavior, siblings 3642.
 visual discrimination learning, neurophysiology, cortex (visual), saccadic eye movements 4092.
 visual perception, colliculus role 3061.
 visual perception, comparative studies, man 723.
 visual stimuli, visual deprivation, lid suture, amblyopia 725.
 vocalization behavior, cortex (cingulate) lesions effects on 913.
 water intake, ethanol, reinforcement 556.
- Macaca nemestrina**,
 mother-offspring interactions, isolation, effects on social behavior 1385.
 pregnancy, fetuses sex differences, effects on aggression 1213.
- Macaca radiata**,
 females, social hierarchy, dominance, age 99.
 forage, food availability, effects on social behavior 2590.
 sexual behavior, sexual receptivity, endocrinology, aging 4416.
 sexual behavior, social behavior, aggressive behavior, age effects 192.
 visual stimuli, social behavior, juveniles 1386.
- Macaca silenus**,
 ontogeny, mother-offspring interactions, social interactions, infants 3890.
 vocalization behavior, sex differences, age 3441.
- Macaca sylana**,
 breeding success, fitness dominance,
- Macaca sylvana**,
 social hierarchy, dominance, subordination 3646.
- Macaca mulatta**,
 diets, protein deficiency, effects on visual perception 1899.
- Macrobdella decora**,
 electrical stimulation, effects on mechanoreceptors, neurons, body movements 4184.

- Macrobathrum nipponense**,
mating behavior, breeding success, sexual dimorphism, chelicerae 2385
mating behavior, spawning, oviposition 2449
- Macrobathrum rosenbergi**,
juveniles, synchronization, molting behavior, chemical communication 2
locomotor activity, juveniles, metamorphosis 4065
- Macrolophus quinquevittatus**,
feeding behavior, efficiency, food organisms, Pheidole 1435
predators, food consumption, energy intake, foraging behavior 3670
- Macropodus**,
brain anatomy, reproductive behavior 1952
- Macropodus cupanus**,
carbaryl, pollution effects, ventilatory behavior 3807
feeding behavior, satiation 2686
- Macropodus giganteus**,
habitat preferences, ecological distribution 2866
- Macropodus robustus**,
social behavior, mother-offspring interactions, body size, sex, sexual dimorphism, Australia 245
- Macrostiles fasciatus**,
sensilla, chemoreceptors, ultrastructure, role, feeding behavior 2642
- Macrotermes michaelseni**,
colonial characteristics, fungus gardens, foraging behavior, workers 1592
feeding behavior, colonies, Kenya 1421
feeding behavior, colonies, Kenya 1422
- Macrotermes subhyalinus**,
food organisms, colonies, predation, Megaponera foetens 1393
- Macrotermiteinae**,
food organisms, colonies, predation, Megaponera foetens 1393
- Magnesium**,
ventricles (cerebral) injection, effects on feeding behavior, drinking behavior, heart rate, sheep 799
- Magnetic compass**,
navigation behavior, pigeons 1853
- Magnetic fields**,
dark, orientation, disorientation, homing behavior, pigeons 662
detection, *Oporchynchus nerka* 649
geotaxis, orientation, homing behavior, navigation behavior, aquatic organisms, reviews 2990
migrations, orientation, *Sylvia atricapilla*, *Erithacus rubecula* 3014
navigation behavior, homing behavior, pigeons 4055
navigation behavior, routes, *Apodemus sylvaticus* 668
orientation, flight, *Nocua prunedu* 4036
orientation, geotaxis, *Apis mellifera* 1844
orientation, homing behavior, pigeons 4058
perception, brain anatomy, pigeons 3083
perception, navigation behavior, *Thunus albacares* 4045
perception, pigeons 735
polarity, navigation behavior, pigeons 665
receptors, orientation, communication, *Apis mellifera* 1911
storms, homing behavior, navigation behavior, pigeons 3018
taxis, orientation, bacteria 2992
- Magnetism**,
migrations, rheotaxis, *Pisces* 3010
- Maintenance**,
operant response, drugs effects on, rats 1018
- Makaira mazara**,
visual perception, color blindness 3053
- Makaira mitsukurini**,
visual perception, color blindness 3053
- Malaclemys terrapin**,
courtship, mating behavior, USA, Florida 146
nesting behavior, environmental effects, USA, Florida 147
- Malacoona americanum**,
activity patterns, colonies, larvae 2793
colonial characteristics, polymorphism behavior, activity patterns, larvae 3794
flight activity, energetics, thermoregulation 689
- Malacoona distria**,
sex pheromone, chemical composition 17
- Malaysia**,
tropical environment, rain forests, autecology, behavior, Primates, books 3371
- Male sterility**,
competitiveness, statistical analysis, variance, Insecta 2194
- Males**,
activity patterns, pheromones effects on, interspecific relationships.
Dictploca japonica, *Philosamia cynthia* 1145
adults, social interactions, infants, *Papio cynocephalus* 1389
aggregation pheromone, mating behavior, *Rhyzopertha dominica* 1136
aggression, dominance, mating behavior, *Mirounga leonina* 1211
aggression, isolation effects on, mice 1198
aggressive behavior, androgens, estrogens effects on, *Coturnix japonica* 1036
aggressive behavior, chemoreception, urine, testosterone, rats 1184
aggressive behavior effects on renin plasma levels, mice 2329
aggressive behavior, musth, *Loxodonta africana* 3459
aggressive behavior, sexual receptivity, activity, sexual behavior, mice 1197
aggressive behavior, teeth, functional morphology, *Babystoma babystoma* 67
aggressive behavior, threatening behavior, mice 1208
agonistic behavior, dominance, breeding success, *Papio* 2377
agonistic behavior, social interactions, *Mirounga angustirostris* 3448
Amblyorypha parvippennis, social organization, spatial distribution, singing sites, aggregation behavior, population density 1219
androgens, chemical stimuli, effects on scent marking behavior, exploratory behavior, rats 3572
approach behavior, ontogeny, rats 2921
breeding success, fitness dominance, *Macaca sylana* 1231
breeding success, song effects on, *Parus major* 35
chemosensitization, mating behavior, competition, genetics, *Anopheles culicifacies* 1248
chemotaxis, sex pheromone, orienting response, *Periplaneta americana* 1843
competition, adaptations, morphology, competitive behavior, *Podiscus agenor* 2781
competition, male selection, *Rana sylvatica* 151
competition, mating behavior, *Caloptera discipans* 1255
conspecific odors preferences, nests, 6-hydroxydopamine effects on, rats 929
copulation, mating behavior, aggressive behavior, *Bulbulcus ibis* 1298
courtship, stridulation, calling behavior, *Ligyrocricus diffusus* 1250
- Males, (continued)**
dominance, parasites effects on, *Heligmosomoides polygyrus*, mice 1230
drugs, naloxone, N-n-propyl-norapomorphine, effects on copulation, rats 4373
effects on aggressive behavior, juveniles, rats 1202
ejaculation, hormones, naloxone - rats 2175
factors affecting abundance, colonial characteristics, *Myrmica* 1413
feathers, maturation, reproductive behavior, *Setophaga ruticilla* 513
feeding behavior, *Heliotropium* host plants, *Gabonia gabriela* 2643
fighting, castration, testosterone effects on, mice 1207
fighting effects on testosterone plasma levels, man 2185
fitness, dominance, infanticide, *Macaca mulatta* 1214
flight activity, sex pheromone components effects on, *Trichoplusia ni* 1863
flight, sex pheromone components effects on, *Spodoptera litura* 25
foraging behavior, activity patterns, *Plebeia dorylana* 3677
home range, feeding behavior, seasonal variations, *Scro scrofa*, USA, Tennessee 485
homosexual behavior, body weight effects on, *Palmacoxia nana* 1239
hormones, courtship behavior effects on, *Streptopelia risoria* 1301
hormones, social interactions effects on, *Streptopelia risoria* 1365
inheritance, agonistic behavior, mice 2339
intraspecific relationships, abortion, sexual behavior, *Microtus ochrogaster* 2505
lordosis behavior, olfactory stimuli, rats 3555
mating behavior, breeding, cattle, sheep, pigs 4449
mating behavior, copulation, adaptiveness, *Rodentia* 1325
mating behavior, fecundity, competition, radiation effects on, *Culex tarsalis* 145
mating behavior, females attractiveness, age, *Tenebrio molitor* 3499
mating behavior, sex pheromone effects on, *Bradysia imptens* 113
mating behavior, silk role, *Carthorus xanthogramma* 2395
mating behavior, sperm displacement, bursa copulatrix, *Lestes vigilax* 3506
mating, *Monochamus scutellatus* 1241
nesting behavior, aggressive behavior, *Betta splendens* 1194
nesting behavior, parental behavior, *Isobrychus usilis* 2534
nesting behavior, territorial behavior, *Oxybelus sericeus* 1543
offspring, survival, maternal behavior effects on, food availability, *Neotoma floridana* 486
parental behavior, feeding, offspring, secondary nestlings, nutritional status, food availability, *Dolichonyx oryzivorus* 1346
parental behavior, reproductive behavior, agonistic behavior, *Betta splendens* 3530
parental behavior, social rank, mice 2547
parental behavior, toting, offspring, *Papio ursinus* 213
pheromones, behavior response, threshold limits, *Grapholita molesta* 15
quality, assortative mating, territorial behavior, *Agelaius phoeniceus* 1303
reproductive behavior, population regulation, *Peromyscus leucopus*, USA, Massachusetts, Muskeget Island 481
reproductive behavior, sex pheromone effects on, *Sitotroga cerealella* 121
reproductive behavior, spatial distribution, song, *Cystosoma saundersi* 1278
reproductive strategy, mate selection, sexual behavior, *Marmota caligata* 1331
sex pheromone attractiveness, habituation, *Trichoplusia ni* 1147
sex pheromone, attraction, orientation, *Periplaneta americana* 2999
sex pheromone response, age effects, *Brachymena lasus* 1138
sexual behavior, aggressive behavior, females dominance, sex hormones effects on, *Myiophycus talapoin* 3573
sexual behavior, aging effects on, mice 3575
sexual behavior, carbon dioxide effects on, *Musca domestica* 107
sexual behavior, castration effects on, *Peromyscus maniculatus* 3323
sexual behavior, chronic exposure, sex hormones, agonists, effects on, rats 1046
sexual behavior, drug effects, rats 2149
sexual behavior effects on hormones, rats 2178
sexual behavior, luteal effects on, rats 3327
sexual behavior ontogeny, fluoxymesterone effects on, hamsters 2182
sexual behavior, pergolide, bromocriptine effects on, rats 4319
sexual behavior, pheromones response, *Doryctera amatella* 115
sexual behavior, social environment, isolation, rats 3561
sexual behavior, spawning behavior, forebrain lesions effects on, *Carassius auratus* 4219
social interactions, aversion learning, *Meriones unguiculatus* 576
social interactions, modulation, hormones, sexual behavior, aggressive behavior 4396
social rank, dominance, replacement, *Macaca fascicularis* 2378
song, parental behavior, *Saxicola torquata* 2538
sound production, aggregation behavior, movements, spatial distribution, *Neonoccephalus ensiger* 3467
sound production (biological), auditory communication, *Zonocerus variegatus* 1142
spatial distribution, social organization, *Papio cynocephalus* 1228
territorial behavior, copulation burrows, body size, *Cypocpe ceratophthalmus* 2383
territorial behavior, lek behavior, *Pedioetes phasianellus* 2358
territorial behavior, reproductive status effects on, *Troglodytes troglodytes* 2363
testicular recrudescence, circadian rhythms, photoperiods, *Carpodacus erythrinus* 1937
testosterone, plasma levels, social rank, dominance, mice 2376
urea, chemical stimuli, locomotor activity, neonates, mice 3593
vertical migrations, morphology effects on mating behavior, *Pleuroamma piseki* 422
vocalization behavior, mating behavior, *Hyla arborea savignyi* 2383
vocalization behavior, social behavior, spatial distribution, *Hyla ebraccata* 32
- Mallophora schwarzi**,
courtship, mating behavior, Panama, Gamboa 2440
- Mallos**,
social organization, territorial behavior, silk repellents 1361.
- Mallos gregalis**,
social behavior, sanitation, excretory products distribution, webs structure 1359
social organization, colonial characteristics, activity patterns 3608.
- Main nutrition**,
avoidance behavior, brain, biochemical characteristics, maturation, neonates, stress, cold stress 575
early experience, effects on operant conditioning, food reinforcement, rats 3885
effects on avoidance learning, exploratory behavior, emotional behavior, vocalization behavior, rats 1603
effects on maternal behavior, nursing, heritability, rats 206.

- Malnutrition, (continued)**
 effects on maternal behavior, nursing, rats 205.
 effects on visual discrimination, rats 1894
 juveniles, effects on maternal behavior, rats 1353
- Maltose,**
 chemical stimuli, chemotaxis, *Escherichia coli* 4030.
- Malurus leucopertus leucopertus,**
 diets, feeding behavior 2714.
- Malurus splendens,**
 aggregation, territorial behavior 234.
- Malus,**
 host plants, host searching behavior, temperature effects on, *Cydia pomonella* 3786.
- Mamillary bodies,**
 lesions, effects on acquisition, spatial discrimination learning, cats 4245
- Mammalia,**
 ecobolocation, orientation, books 3372.
 feeding behavior, carnion, conspecifics 3751.
 hosts, chemotaxis, life cycle, development, population dynamics, Simuliidae 645.
 insecta neurotransmitters effects on behavior 836
 juveniles, ventilatory behavior, posture, respiration frequency 515.
 memory, neurophysiology, reviews 4026
 social behavior, breeding, evolution 2556.
 visual discrimination learning, behavior ecology 419.
 vocalization behavior, auditory communication, geographical variations 2310.
 wheel running, motivation 2245.
- Man,**
 aggression, primates, books 3374.
 aggressive behavior, brain role, reviews 3462.
 aggressive behavior, frustration effects on 78.
 alcohol effects on H-reflex, motor activity 2074.
 auditory communication, visual communication, vocalization behavior, Primates, books 4494
 auditory perception, localization, neonates 1928.
 auditory stimuli, effects on cortex electropotential, ontogeny 1927.
 bipedalism, evolution, aquatic environment 3856
 beetle right hemisphere, discrimination learning, memory, recognition 617.
 conditioning, auditory stimuli, visual stimuli, contingency 1713.
 drug abuse, pharmacology, drug self-administration, rats, mifensine 2095.
 effects on escape behavior, observation methods, Pisces 2832.
 fear, heart rate, rearing, chickens 4467.
 fighting effects on testosterone plasma levels 2185.
 infants, activity patterns, mother-offspring interactions 212.
 infants, behavior assessment methodology 4441.
 infants, locomotion, ontogeny, walking 1877.
 infants, stereotyped behavior, activity patterns, rhythms 1627.
 locomotion, tool use, paleontology 3855.
 locomotion, walking, evolution 3854.
 locomotion, walking, evolution 3857.
 mechanoreceptors, skin, tactile perception 4127.
 memory, retention, visual stimuli, matching-to-sample 1830.
 motor activity control, theories 2188.
 operant response, attention task, alternation learning, contingency, sensitivity 1710.
 pheromones, androsteneol attractancy 3438
 self-punitive behavior, aversion learning 1769.
 sexual behavior, social behavior, genetic factors 2470.
 social behavior, display, smiling 1383.
 stereotyped behavior, neurophysiology, reviews 4215.
 tactile perception, tactile discrimination 1925.
 taste perception, suppression 4126.
 taste perception, taste thresholds, reaction time 4123.
 threatening behavior, visual discrimination, nesting behavior, *Larus argentatus*, *Larus marinus* 3054.
 transfer learning, inhibition 1798.
 visual evoked response, visual perception, motion, directional selectivity 1895.
 visual perception, comparative studies, *Macaca mulatta* 723.
- Mandibular glands,**
 pheromones, olfactory stimuli, *Myrmica* 2270.
- Mandrilus sphinx,**
 social behavior 3641
- Managrove swamps,**
 habitat, territorial behavior, *Periophthalmus*, *Periophthalmodon schlosseri* 2352.
- Manipulation,**
 visual stimuli, effects on cortex (prefrontal) EEG, monkeys 870.
- Manoosia,**
 visual evoked response, visual stimuli, avoidance behavior, hosts 1881.
- Marine environment,**
 aggregation behavior, sheltering behavior, flotsam, Pisces 2823.
 trace fossils, behavior indicators, marine organisms 3852.
- Marine fauna,**
 diurnal variations, vertical migrations, temperature effects, *Xiphias gladius* 471.
 feeding behavior, species composition, food composition, environmental factors, *Aves*, Irish Sea 365.
- Marine organisms,**
 behavior, books, *Aves* 3373.
 behavior indicators, trace fossils, paleoecology 3852.
 survival, migrations, measuring techniques, tagging, *Reptilia* 1087.
 synchronization, molting behavior, chemical communication, juveniles, *Macrobrachium rosenbergii* 2.
- Markers,**
 nasal saddles, winter, stress, *Anas platyrhynchos* 1107.
- Marking,**
 capture-recapture studies, mating behavior, *Glossina morsitans* 1086.
 effects on mast cells abundance, rats 837.
- Marking behavior,**
 aggressive behavior, social hierarchy, *Mus musculus* 1210.
 oviposition deterrents, intraspecific relationships, *Rhagoletis basiola* 1130.
 social interactions, sexual reproduction, *Rhombomys opimus* 185.
- Marmota caligata,**
 males reproductive strategy, mate selection, sexual behavior 1331.
- Marmota flaviventris,**
 food consumption, metabolic rate, circannual rhythms 388.
 social behavior, parental behavior, dispersal, juveniles, environmental effects, habitat 239.
- Marmota menzbieri,**
 home range, nesting behavior, burrowing behavior, feeding behavior, social organization, sexual reproduction, USSR 3823.
- Marmota monax,**
 anti-predator behavior, scansorial behavior, climbing, trees 3827.
- Marpissa tigrina,**
 feeding behavior, food preferences, predators, *Insecta* 286.
- Martes martes,**
 scent marking behavior, defecation, urination 3480.
- Maruca testulalis,**
 reproductive behavior, oviposition habitat preferences 103.
- Masariidae,**
 reproductive behavior, life history, South Africa 444.
- Mast cells,**
 abundance, brain, handling effects on, rats 837.
- Mastication,**
 anterior dental microwear, diets, feeding behavior, *Pan troglodytes troglodytes*, *Gorilla gorilla gorilla*, *Papio hamadryas* 4437.
- Mastigias,**
 zooplankton, migrations, diurnal variations, horizontal distribution, *Caroline is.*, Palau 627.
- Mastomys natalensis,**
 diets, feeding behavior 1498.
- Mastophora dizzydeani,**
 life history, predatory behavior, reproductive behavior 1523
- Matching,**
 conditioned response, reinforcement schedules, rats 1757.
 CS, tactile perception, enhancement 4125.
 fixed-ratio change-over, concurrent schedule, variable time schedule, pigeons 1652.
 reinforcement schedules, conditioned response, rats 1695.
 song, vocalization behavior, conspecifics, *Turdus merula* 1174.
 variable interval schedule, performance, models 1065.
- Matching-to-sample,**
 auditory discrimination learning, short term memory, *Tursiops truncatus* 3996.
 delayed response, interference, pigeons 1664.
 delayed response, memory, forgetting, cues, pigeons 1808.
 delayed response, proactive interference, memory, forgetting, pigeons 1815.
 discrimination learning, illumination, pigeons 1779.
 disruption, acquisition, reinforcement, pigeons 1777.
 drug effects, pigeons 4349.
 drugs effects on, cocaine, memory, pigeons 4283.
 external stimuli, delayed response, forgetting, pigeons 1811.
 factors affecting discrimination learning, identification, pigeons 587.
 latency, delayed response, memory, pigeons 1654.
 memory, operant response, delayed response, discriminative stimuli, children 1831.
 memory, retention, *Saimiri sciureus*, man 1830.
 models, discrimination learning, pigeons 588.
 multiple schedule, operant conditioning, short term memory, pigeons 1812.
 performance, intertrial interval effects on, short term memory, pigeons 607.
 reinforcement, expectancy, pigeons 2964.
 reinforcement schedules, interference, retention, pigeons 3993.
 retention, delayed reinforcement, *Cebus apella* 1708.
 shared attention, generalization decrement, *Cebus apella* 2977.
 short term memory, pigeons 2987.
 short term memory, retention intervals, pigeons 3992.
 stimulus control, memory, directed forgetting, delayed response, pigeons 1810.
 transfer learning, color, pigeons 2967.
 transfer learning, concept learning, pigeons 4013.
 1,1,1-trichloroethane, drugs effects on, *Papio anubis* 4395.
 variable interval schedule, short term memory, temporal perception, pigeons 1813.
- Mate guarding,**
 nesting behavior, reproductive behavior, *Pica pica* 2476.
- Mate selection,**
 aggressive behavior, body size, sexual selection, *Breutus anchorage* 2421.
 assortative mating, cross-breeding, population structure, *Columba livia* 3538.
 behavioral genetics, *Drosophila* 2439.
 body size, breeding success, *Tetraodon tetraodon* 2398.
 calling behavior, vocalization behavior, *Hyperolius marmoratus* 1155
Chauliognathus pennsylvanicus, competition effects on, interspecific relationships, *Vespidae* 135.
 color, feathers, age, feral populations, pigeons 173.
 coloration, attractancy, leg bands, *Poephila guttata* 4086.
 conspecifics recognition, *Polistes fuscatus* 2426.
 copulation, *Pan troglodytes* 3581.
 copulation, *Pogonomys californicus* 3513.
 courtship, discrimination, age, body size, *Pteris protodice* 2397.
 courtship, females, *Colias eurytheme*, *Colias philodice* 123.
 courtship, *Phidippus femoratus* 2386.
 genetics, strains, *Tribolium castaneum* 2879.
 mating behavior, body size, *Hyla versicolor*, *Hyla crucifer* 2445.
 mating behavior, *Corvus frugilegus* 2479.
 mating behavior, *Coturnix japonica* 2480.
 mating behavior, *Dacus dorsalis* 1266.
 mating behavior, females, mathematical models 100.
 mating behavior, habitat, *Eristalinus* 3510.
 mating behavior, *Lepidoptera* 2389.
 mating behavior, territorial behavior, *Agelaius phoeniceus* 1303.
 nests, territorial behavior, breeding success, courtship interference, *Gasterosteus aculeatus* 3528.
 reproductive behavior, song, *Cystosoma saundersii* 1278.
 reproductive isolation, feeding types, *Dichrocois punctiferalis*, Japan 1256.
 sex ratio effects on, *Larus argentatus* 162.
 sex ratio, males, competition, *Rana sylvatica* 151.
 sexual behavior, evolution, females, mathematical models 2872.
 sexual behavior, males reproductive strategy, *Marmota caligata* 1331.
 social interactions, display, *Macaca fuscata* 51.
 social organization, genetic factors, *Peromyscus polionotus* 183.
 social rank, rats 3560.
 song, *Zonotrichia leucophrys oriantha* 3399.
- Maternal behavior,**
 aggression, prolactin effects on, mice 2180.
 aggressive behavior, females, *Mirounga leonina* 2545.
 alcohol effects on, rats 4387.
 brood care, eggs, females, *Labidura riparia* 3500.

Maternal behavior, (continued)

- cannibalism, hoarding behavior effects on, hamsters 3570
 cannibalism suppression, gerbils 1350
 chemical stimuli, amniotic fluid, dogs 3595
 Choeopsis libenensis, Ivory Coast 2551
 cocoons construction, *Uloborus ferokus* 3357
 cortex ablation, species behavior, neonates, hamsters 1959
 data acquisition, computer applications, mice 1094
 eggs, hygiene, effects on, *Labidura riparia* 137
 endocrine system, sensory stimuli regulation, juveniles, Ovis 203
 food availability effects on, males offspring survival, *Neotoma floridana* 486
 horses 204
 infanticide, sex hormones, offspring, rats 1351
 juveniles malnutrition effects on, rats 1353
 malnutrition effects on, nursing, hentaibutyl, rats 206
 maternal effects, experience, parous state, retention, rats 1326
 mother-offspring interactions, aggression, *Macaca fuscata* 1358
 mother-offspring interactions, feeding, nymphs, *Perisphaerus* 1343
 mother-offspring interactions, licking behavior, urine consumption, rats 2549
 mother-offspring interactions, ontogeny, social interactions, infants, *Macaca* 3890
 mother-offspring interactions, Pan troglodytes 3606
 mother-offspring interactions, *Rangifer tarandus tarandus* 2546
 nest building, pregnancy, mice 3600
 nesting behavior, inbreeding effects on, mice 1354
 nesting behavior, progesterone effects on, genetic factors, mice 3848
 noradrenaline depletion, hypothalamus, rats 4193
 nursing, malnutrition effects on, rats 205
 nursing, suckling behavior, *Rangifer tarandus pearyi* 3598
 ontogeny, sociological aspects, proteins deprivation, rats 524
 paternal effects, urine chemical stimuli, *Onychomys torridus* 3594
 placentalophagy, observational learning, rats 1329
 predators, defensive behavior, *Gargaphia solani* 1344
 pregnancy, fetuses sex differences effects on, *Macaca nemestrina* 1213
 progesterone withdrawal, estrogens, ovary ablation, rats 1968
 reproduction, survival, sheep 4457
 reproductive behavior, feeding behavior, *Vespertilio superans superans* 2486
 separation effects on, mother-offspring interactions, goats 3599
 sexual behavior, aggression, infanticide, sociological aspects, *Macaca fascicularis* 194
 tranquilizers, offspring, sheep 2211

Maternal effects,

- behavioral genetics, agonistic behavior, *Salvelinus fontinalis*, *Salvelinus namaycush* 2882
 calling behavior, imprinting, visual preferences, juveniles, ducks 1601
 experience, parous state, maternal behavior, latency, retention, rats 1326
 nutrient deficiency, maze learning, rats 522

Maternal pheromone,

- pheromone emission, hyperphagia, lesions, hypothalamus (ventromedial), rats 2025

Mathematical models,

- aggressive behavior, asymmetric contests 1077
 aggressive behavior, self-interaction 1075
 aggressive behavior, symmetric contests 1076
 altruism, kin selection, environmental effects 499
 associative learning, memory 1061
 associative learning, memory, association analysis, reinforcement 1066
 behavioral genetics, migrations, reproduction 1060
 behavioral genetics, natural selection, altruism 1063
 breeding success, infanticide, *Presbytis* 2509
 competition, territorial behavior 2344
 evolution, aggressive behavior, social hierarchy 503
 feeding behavior, food attractancy, *Misgurnus anguillicaudatus* 2683
 feeding behavior, *Formicidae* 1431
 locomotion, *Arionolaima columbianus* 675
 mating behavior, intensity, *Drosophila* 136
 mating behavior, mate selection, females 100
 movements, interspecific relationships, encounters, *Arthropoda* 2777
 oscillation, circadian rhythms, *Drosophila* 1933
 population genetics, evolution, social behavior 3839
 predation, foraging behavior 2598
 predator-prey interactions, predation effects on prey population density 252
 predator-prey interactions, predators training, feeding behavior, diets 1062
 predatory behavior, diets, optimization 3652
 resource exploitation, carnivores, predator-prey interactions, social interactions, territorial behavior 1068
 schooling behavior, *Pisces* 1607
 sexual behavior, mate selection, evolution, females 2872
 speciation, reproductive behavior, isolation, natural selection, behavioral genetics 1064
 subharmonic solutions, predator-prey interactions, feeding behavior 251

Mathematics,

- cognitive ability, Pan troglodytes 2982
 concept learning, proportion, number, Pan troglodytes 1804
 ethology, books 4490

Mating,

- calling behavior, sound production, intensity, *Salientia*, Africa 3396
 effects on females locomotion, sexual behavior, *Telegryllus commodus* 1292
 effects on sex pheromone biosynthesis, aggregation, *Ips paracausus* 1149
 flight activity, *Nectopsyche albida*, USA, India 1282
 insemination, effects on oviposition, *Saila mellifera* 3515
 nests, *Monochamus scutellatus* 1241
 seasonal variations, *Macaca mulatta* 3580
 sexual receptivity, oviposition, feeding, *Amblyomma americanum* 3518

Mating behavior,

- activity patterns, dispersal, feeding behavior, *Batocera lineolata* 1593
 activity patterns, display, *Eldana saccharina* 1251
 activity patterns, sex pheromone, *Apanteles glomeratus* 1271
 aggregation pheromone, males, *Rhyssalus perthina* 1136
 aggressive behavior, coloration, mimicry, *Saitis piscular* 2798
 aggressive behavior, sex hormones, gerbils 2496
 aggressive behavior, sound production (biological), *Orchelimum gladiator*, *Dissostera carolina* 143
 association, *Larus argentatus* 159
 auditory communication, auditory discrimination, sympatric populations, interspecific relationships, *Hyperolius* 1153
 auditory communication, isolation, hybrids, *Rana pipiens*, *Rana blairi* 31.

Mating behavior, (continued)

- bioluminescence, *Eledonella pygmaea*, *Japetella diaphana* 2252
 body movements, orientation, *Apanteles glomeratus* 3498
 body size, breeding success, sexual selection, *Bufo amercianus* 2443
 breeding, *Phomocirus ochrus* 2475
 breeding sites selection, breeding success, *Pseudolabrus celidotus* 154
 breeding success, functional morphology, chelicerae, *Macrobrachium nipponense* 2385
 call behavior, light intensity, temperature effects, *Chilo suppressalis* 1287
 captivity, *Erythrocybus japonicus* 1342
 chemical communication, sex pheromone, *Tiphidae* 2427
 circadian rhythms, adaptiveness, *Acrolepiopsis assectella* 2391
 circadian rhythms, seasonal variations, *Chilo suppressalis* 1264
 colonial characteristics, population genetics, *Lasius sakagami* 1242
 competition, chemovisualization, males, genetics, *Anopheles culicifacies* 1248
 competition, fecundity, males, radiation effects on, *Culex tarsalis* 145
 conspecific recognition, tactile stimuli, *Enallagma* 2432
 cooperation, evolution, models 505
 copulation, adaptiveness, males, *Rodentia* 1325
 copulation, aggressive behavior, *Bulbulcus ibis* 1298
 copulation, *Ancylostoma duodenale* 2387
 copulation, *Bison bison* 3563
 copulation, breeding, cattle 2499
 copulation, *Carcinus maenas* 3488
 copulation, competition, social behavior, rats 3578
 copulation, courtship, *Anas crecca carolinensis* 3551
 copulation, functional morphology, *Onychomys borealijaponica* 2384
 copulation, *Glossina morsitans morsitans*, *Glossina austeni* 2414
 copulation, grooming, *Onus trichopsis* 3541
 copulation, *Impantes histicrus* 2433
 copulation, *Microtus canadensis*, *Microtus oregonus*, *Microtus xanthognathus* 3569
 copulation, olfactory discrimination, *Neotoma lepida* 1337
 copulation, oviposition, *Antheraea yamanai*, Japan 1254
 copulation, prolactin effects on, rats 3316
 copulation, protection, females, territorial behavior, *Hetaerina vulnerata* 2399
 copulation, sex differences, rats 3576
 copulation, sperm use, females, *Drosophila pseudoobscura* 104
 copulation, *Streptopogon jerdani* 2381
 copulation, DNA content, *Atta laevigata* 130
 courtship, adaptations, ponds, streams, *Ambystoma texanum* 3524
 courtship, auditory stimuli, auditory perception, *Drosophila mercatorum* 3069
 courtship, *Brachymeria lasus* 1272
 courtship, *Chrysopa perla* 2401
 courtship, copulation, *Sterna maxima* 2478
 courtship, *Dacus curcurbitae* 1276
 courtship, *Dasysitta centroura*, USA, Florida Coast 157
 courtship display, age effects, *Aix galericulata* 1316
 courtship, females competition, *Anabrus simplex* 1288
 courtship, *Lissemys punctata punctata*, India, L. Mansar 148
 courtship, *Malaclemys terrapin*, USA, Florida 146
 courtship, *Mallophora schwarzi*, Panama, Gambia 2400
 courtship, maturation, *Anastrepha ludens* 1285
 courtship, *Pelomedusa subrufa* 3526
 courtship, population structure, population genetics, *Drosophila primaeva*, Hawaii 141
 courtship, *Portia fimbriata* 2380
 courtship, *Procambarus clarkii* 3489
 courtship, reproductive isolation, *Drosophila mojavensis*, *Drosophila arizonensis* 118
 courtship, sex pheromone, *Diplazon pectoratorius* 2410
 courtship, sex pheromone, *Rhodesius ocellatus ocellatus*, *Acheilognathus lanceolatus* 3532
 courtship, vocalization, females, *Eutamias* 2490
 courtship, *Wiedmannia lepida* 1281
 defense secretions, composition, sex pheromone, *Taenopoda eques* 2266
 deserts, role, visual stimuli, auditory stimuli, *Drosophila* 1267
 deterrence, cuticle lipids, *Glossina morsitans morsitans* 3516
 diel variations, photoperiods, *Chilo suppressalis* 1274
 display, *Podiceps nigricollis* 3542
 dominance, aggression, males, *Mirounga leonina* 1211
 environmental factors, *Ascia monuste orseis* 2405
 estrous receptivity, serotonin, progesterone, GABA, olfactory organs ablation, females, rats 793
 estrus, sex hormones, *Ailurogaleus melanoleuca* 2502
 experience effects on, mutants, mice 3564
 exploratory behavior, scent marking behavior, females, androgens effects on, rats 3572
 eye color mutants, *Drosophila melanogaster* 128
 eye color mutants, genetics, heterozygosity, *Drosophila melanogaster* 2880
 feeding behavior, *Octopus vulgaris*, South Africa Coast 102
 females attractancy, age, males, *Tenebrio molitor* 3499
 females, hormones effects on, *Rana pipiens* 150
 fitness, breeding success, *Drosophila* 2409
 flight activity, sex pheromone, *Hyphantria cunea* 1284
 frequency, *Hylemya antiqua* 3507
 genes, hybrids, *Drosophila melanogaster*, *Drosophila simulans* 1582
 genes, lethality, *Drosophila melanogaster* 2877
 genetics, strains, *Tribolium castaneum* 2879
 genotypes, population density, *Clethrionomys glareolus* 2483
 geographical distribution, *Cephalorhynchus commersoni*, Kerguelen Is. 179
 habitat, *Enstalinale* 3510
 habitat preferences, nesting behavior, *Dumetella carolinensis* 1310
 Heliothis virescens 1246
 homosexual behavior, body weight effects on, *Palmaria nana* 1239
 inbreeding, avoidance behavior, *Meriones unguiculatus* 2497
 inbreeding, selection effects on, *Drosophila melanogaster* 2878
 intensity, mathematical models, *Drosophila* 136
 intraspecific relationships, competition, *Caloptera discrepans* 1255
 lek, polygamy, social hierarchy, *Chiroxipha caudata* 1313
 life history, oviposition, development, *Langur rector* 139
 lordosis behavior, sexual receptivity, sex hormones, LHRH analog, rats 1338
 males, breeding, cattle, sheep, pigs 4449
 marking, capture-recapture studies, *Glossina morsitans* 1086
 mate selection, body size, *Hyla versicolor*, *Hyla crucifer* 2445
 mate selection, *Corvus frugilegus* 2479
 mate selection, *Coturnix japonica* 2480.

Mating behavior, (continued)

- mate selection, *Dacus dorsalis* 1268
- mate selection, females, mathematical models 100.
- mate selection, *Lepidoptera* 2389.
- mate selection, males, competition, *Rana sylvatica* 151.
- mate selection, territorial behavior, *Agelaius phoeniceus* 1303.
- midbrain lesions effects on, rats 908
- natural selection, *Pteroptys*, *Afrocmex*, *Xylocoris* 144.
- Neotamias vittipes* 3858.
- nesting behavior, parental behavior, *Eurysternus* 3494.
- nesting behavior, parental behavior, reproductive strategy, *Pachodynerus nasidens* 2425.
- nesting behavior, territorial behavior, *Agelaius phoeniceus* 1311.
- oviposition, activity patterns, *Dioryctria amatella* 1258.
- oviposition, *Apis mellifera* 2394.
- oviposition, *Batocera lineolata*, Japan, Tokyo 2408.
- oviposition, fecundity, *Hyloterpes* 1283.
- oviposition, territorial behavior, *Platygypha caligata* 3505
- pair bond, *Streptopelia risoria* 3550.
- patterns, sex hormones, ablation, olfactory bulb, rats 1328.
- Platygypha fitzsimoni*, *Chlorocypha consuetia*, *Rhinocypha unimaculata* 2431.
- Podagrion mantis* 1243.
- polygyny, parental behavior, *Ficedula hypoleuca* 3548.
- recognition, males, antennal chemoreceptors, *Drosophila bipunctata*, *Drosophila malekollana* 4150.
- reproductive isolation, *Aponomma hydrosauri*, *Amblyomma albolimbatum*, *Amblyomma limbatum* 3502.
- reproductive isolation, feeding types, *Dichocrocis punctiferalis*, Japan 1256.
- reproductive isolation, sympatric populations, *Ostrinia* 2422.
- reproductive strategy, rats 2506
- responsivity, opiates antagonists effects on, hamsters 4344.
- role, sex pheromone, *Rhagoletis cerasi* 3392.
- role, visual stimuli, pheromones, *Heliothis zea* 3511.
- scent marking behavior, horses 2507.
- scent marking behavior, *Lycophotus pictus* 188.
- Schistopterus moehni*
- sensory organs effects on, *Blaettia germanica* 1275.
- sex hormones effects on, gerbils 2495.
- sex pheromone, burrows, *Sphodros abboti*, *Sphodros rufipes* 2889.
- sex pheromone components effects on, *Heliothis zea* 1151.
- sex pheromone effects on, *Bradysia impatiens* 113.
- sex pheromone effects on, *Glossina palpalis* 111.
- sex pheromone effects on, *Trichoplusia ni* 14.
- sex pheromone habituation effects on, *Pectinophora gossypiella* 21.
- sex pheromone role, *Colletes cunicularius* 2402.
- sexual behavior, communication, *Oenanthia isabellina* 3544.
- sexual behavior, *Dacus oleae* 2415.
- sexual behavior, *Rometolagus diazi* 2492
- sexual reproduction, seasonal variations, *Brachytripes megacephalus*, Sicily 2782.
- sexual selection, breeding colonies, *Actris macularia* 3536.
- sexual selection, *Phidippus johnsoni* 269.
- social behavior, genetic factors, *Larus* 2470.
- social behavior, genetics, *Apis mellifera*, *Melipona quadrifasciata* 223.
- social behavior, spawning behavior, *Oncorhynchus gorbuscha* 3531
- social organization, *Molothrus ater* 3546.
- spawning behavior, territorial behavior, *Colisa chuna* 3527.
- spawning, *Centropyge* 2455.
- spawning, *Notropis callitania* 2454.
- spawning, oviposition, *Macrobrachium nipponense* 2449.
- sperm displacement, males, bursa copulatrix, *Lestes vigilax* 3506.
- sperm storage, *Prolinophya marginata* 3514.
- swarming, *Culicoides variipennis*, USA, Virginia 2407.
- temperature effects, *Cnaphalocrocis medialis* 132.
- temperature effects, *Stomoxys calcitrans* 447.
- territorial behavior, breeding success, *Tamiasciurus douglasii* 3557.
- territorial behavior, *Gnadenotis tabida* 2477
- territorial behavior, *Halichoeres maculipinna*, *Halichoeres garnoti*, Panama Coast 341.
- territorial behavior, polygyny, breeding success, *Agelaius phoeniceus* 3539.
- territorial behavior, *Scatophaga stercoraria* 127.
- tree-rubbing behavior, *Alouatta palliata* 3871.
- vertical migrations, morphology effects on, *Pleuromamma piskii* 422.
- vision, pheromones, *Heliothis zea* 2393.
- visual perception, tracking, *Drosophila melanogaster* 710.
- vocalization behavior, *Hyla cinerea* 2448.
- vocalization behavior, males, *Hyla arborea savignyi* 2283.
- vocalization behavior, predation effects on, *Physalaemus pustulosus* 2281.
- vocalization behavior, thermoregulatory behavior effects on, *Bufo woodhousei* 149.
- workers, queens effects on, *Lasiosiglossus zephyrum* 1240.
- copulation, *Dipodomys ordii*, USA, Kansas 2503.

Mating behavior:

- avoidance behavior, malnutrition, neonates, stress, cold stress, rats 575.
- feathers, reproductive behavior, agonistic behavior, *Setophaga ruticilla* 513.
- locomotor activity, prednisolone intrauterine exposure effects on, rats 4301.
- mating behavior, courtship, *Anastrepha ludens* 1285.
- offspring, parental behavior, *Larus argentatus*, USA, New Jersey, Barnegat Bay 197.
- parental care effects on, mice 3603.
- reproductive behavior, growth rate, nutrition effects on, *Papio cynocephalus* 2923.

Maxillary palps,

- morphology, movements, feeding behavior, exploratory behavior, *Gryllus bimaculatus* 4151.

Maze learning,

- activity patterns, rats 3998
- age effects, neurochemistry, *Rattus rattus* 845.
- d-amphetamine intrauterine exposure effects on, rats 4301.
- avoidance behavior, escape learning, alcohol, prenatal experience, rats 574.
- cognition, *Betta splendens* 3989.
- conditioned response preservation, pentobarbital effects on, rats 2106.
- conspecifics experience effects on, *Isoptera* 386.
- cortex lesions, eye ablation effects on, rats 888.
- diets effects on, amino acids, rats 1954.
- discrimination learning, cattle 1785.
- discrimination learning, measuring techniques, mice 2201

Maze learning, (continued)

- dopamine reinforcement, intracranial chemical stimulation, hypothalamus, rats 397.
 - drug effects, alcohol, hippocampus role, rats 1998.
 - early experience effects on, social environment, mice 3887.
 - early experience effects on, visual stimuli, rats 1614.
 - escape behavior, *Hemigrapsus nudus*, *Hemigrapsus oregonensis* 2959.
 - exploratory behavior, hippocampus lesions effects on, rats 910.
 - hippocampus, epilepsy, rats 4190.
 - hippocampus lesions effects on, rats 3201.
 - hormones, corticotropine, rats 2973.
 - lead effects on, juveniles, rats 3228.
 - lesions effects on, substantia nigra, caudate putamen, reticular formation, rats 3187.
 - maternal effects, nutrient deficiency, rats 522.
 - Y-maze, drugs, morphine, enkephalin, mice 594.
 - memory, age effects on, mice 2980.
 - memory, ESB effects on, dentate gyrus, rats 3216.
 - memory, exploratory behavior, rats 1817.
 - memory, hippocampus electrical stimulation effects on, rats 1829.
 - memory, hippocampus, epilepsy, rats 4023.
 - memory, lesions, cognitive mapping, septum, hippocampus, rats 4236.
 - memory, lesions hippocampus effects on, rats 2014.
 - memory, para-fascicular region lesions, rats 3197.
 - memory, pigeons, rats 1806
 - memory, rats 1824.
 - memory, rats 4024.
 - memory, scopolamine.
 - memory, triethyltin sulfate, triethyltin hydroxide effects on, rats 4294.
 - naloxone, intrauterine exposure effects on, rats 3249.
 - olfactory stimuli, scent marking behavior, trail following behavior, rats 4015.
 - orientation, triethyltin effects on, rats 3248.
 - preferences, delayed response, rats 551.
 - prenatal experience, alcohol, drug effects, rats 2168.
 - psychotropic drugs effects on, side effects, mice, rats 975.
 - rats, gravity, artificial weightlessness 601.
 - reinforcement, delay, rats 1692.
 - retention, gravity, space flight, rats 2981.
 - reversal learning, *Triturus viridescens* 3988.
 - saline water effects on, intracranial chemical stimulation, brain lesions, rats 4271.
 - septum lesions effects on, rats 3192.
 - short term memory, intertrial interval effects on, rats 612.
 - short term memory, stimulus control, rats 4027.
 - spatial discrimination learning, delayed reinforcement, *Cebus apella* 1795.
 - spatial discrimination learning, retroactive inhibition, memory, rats 1818.
 - spatial memory 4009.
 - stereotyped behavior, attention, drugs, dopamine, mice 982.
 - strains, performance, rats 1786.
 - taste aversion learning, rats 1794.
 - tectum lesions effects on, rats 3185.
 - training stimuli, effects on, rats 1803.
 - triethyltin effects on, hippocampus damage, rats 4313.
 - triethyltin effects on, hippocampus damage, rats 4314.
 - visual discrimination learning, delayed reinforcement, *Cebus apella* 1796.
 - visual stimuli effects on, rats 1781.
- Meal feeding,**
- sleep (REM) deprivation, photoperiod, rats 769.
- Measurements,**
- behavior, activity, methodology, *Entamoeba histolytica* 1083.
 - modeling, behavior, reinforcement, fixed interval schedules, pigeons 536.
- Measuring techniques,**
- activity patterns, data acquisition, computer applications, microcomputers 3333.
 - activity patterns, diurnal variations, *Thanasimus dubius* 1867.
 - alcohol, blood levels, rats 4427.
 - aversion conditioning, methodology, instruments, rats 2199.
 - conditioned response, drinking behavior, rats 548.
 - consummatory behavior, *Apis mellifera* 2195.
 - equipment, head movements, rats 4430.
 - equipment, temperature preferences, avoidance behavior, *Corophium volutator* 430.
 - equipment, visual perception, rotation 1071.
 - eye movement, methodology, photoelectric properties 1072.
 - feeding, activity patterns, rhythms, electronic equipment, *Channos channos* 3336.
 - feeding behavior, mice 4436.
 - flight activity, diurnal variations, *Tortricidae* 684.
 - flight, dispersion, *Tetraopis tetraopis* 1862.
 - flight intake, licking behavior, rats 4433.
 - food selection, *Porundae* 257.
 - genetic relationship, social behavior, colonial characteristics, *Insecta* 3838.
 - locomotion, motility, microorganisms 4422.
 - maze learning, discrimination learning, mice 2201.
 - methodology, social structure, dominance, cattle 3339.
 - methodology, visual stimuli, electrical stimuli, respiration, *Pisces* 2196.
 - neurons activity, behavior, computer applications 4419.
 - survival, migrations, marine organisms, tagging, *Reptilia* 1087.
- Mecamylamine,**
- nicotine, operant conditioning, olfactory discrimination learning, rats 3995.
- Mechanical properties,**
- flight activity, *Hippodideros speoris* 1874.
 - locomotion, *Ostracion lentiginosus* 3041.
- Mechanical stimuli,**
- behavior modification, learning behavior, drug effects, *Helix pomatia* 528.
 - discrimination learning, object detection, *Anoptichthys jordani* 3076.
 - discrimination, wind, escape behavior, *Periplaneta americana* 1906.
 - locomotion, neurophysiology, rats 3148.
 - object detection, lateral line mechanoreceptors, *Anoptichthys jordani* 3079.
 - predatory behavior, molting, *Ranatra linearis* 3669.
 - prey localization, feeding behavior, *Aplocheilichthys* 3077.
 - tails, effects on feeding behavior, rats 405.
- Mechanisms,**
- locomotor activity, electrical stimulation, neurons, *Testudinata* 915.
 - neurons, yawning behavior, hormones, drug effects, physostigmine, pilocarpine, rats 848.
- Mechanoreceptors,**
- blood vessels, brain, effects on locomotor activity, 1985.

Mechanoreceptors, (continued)

- electrical stimulation, effects on neurons, body movements, *Hirudo medicinalis*, 4184
Macrobrachium decora 4184
 mechanical stimuli, object detection, lateral line, *Anoptichthys jordani* 3079
 skin, tactile perception, man 4127
 tongue, tactile perception, interaction, auditory stimuli, man 4124
 vibratory stimuli, neurophysiology, *Locusta migratoria*, *Decticus verrucivorus* 1909

Megascops jeffersoni

- oviposition, egg-throwing, trees, Bolivia 2438

Medial forebrain bundle.

- 5-hydroxytryptamine receptors, hallucinogens effects on appetitive conditioning, rats 4360
 intracranial self-stimulation, rats 2059
 lesions, foot shock sensitivity, 5-hydroxytryptamine depletion, avoidance behavior, rats 884

Mediation.

- reinforcement, dopaminergic, behavioral contrast, rats 3156
 stereotyped behavior, cerebrospinal fluid, neurotransmitters, substance P, mice, rats 867

Medicago.

- host plants, effects on activity patterns, *Hypera postica* 1541

Megasceryle alcyon.

- territorial behavior, food availability 3471

Megachile rubi.

- colonial characteristics, nesting behavior, evolution 2420

Megachile texana.

- colonial characteristics, nesting behavior, evolution 2420

Megaloblatia blaberoides.

- disturbance effects on stridulation, defense mechanisms 2316

Megaponera foetens.

- predation, food organisms, colonies, Macrotermutinae 1393

Megaptera novaeangliae.

- interspecific relationships, auditory communication, Hawaii, Tropical Pacific Ocean 46

- migrations, population density, annual variations, Tropical Pacific Ocean 666

Megarhyssa.

- parasites, aggregation behavior, sex discrimination, rectal gland 224

- sexual behavior, interspecific relationships 126

Megarhyssa atrata.

- sexual behavior, interspecific relationships 126

Megarhyssa greeni.

- sexual behavior, interspecific relationships 126

Megarhyssa macrurus.

- sexual behavior, interspecific relationships 126

Melanagromyza obtusa.

- oviposition, host plants, substrate preferences, *Cajanus cajan* 2435

Melanerpes formicivorus.

- territorial behavior, spatial distribution, aggregation 2359

Melanerpes uropygialis.

- nesting behavior, orientation, USA, Arizona 2845

 α -Melanocyte stimulating hormone.

- cerebrospinal fluid, blood, avoidance behavior, rats 4414

Melanotropin.

- fragments, effects on open-field behavior, avoidance behavior, rats 4363

Melatonin.

- drug effects, emotional behavior, open-field behavior, rats 2146

- effects on thermoregulatory behavior, *Terrapene carolina triunguis* 1561

Melengestrol acetate.

- effects on reproductive behavior, estrus, cattle 3353

Meles meles.

- diets, food availability, habitat preferences, seasonal variations, Italy 1494

- feeding behavior, diets, food availability, British Isles, Scotland 1497

Meliphaga virescens.

- diets, feeding behavior 2714

Meliphagidae.

- comparative studies, feeding behavior, food composition, dominance, range, New Zealand 403

- feeding behavior, social hierarchy, interspecific relationships, agonists 3732

- foraging behavior, flight energetics 1486

- foraging behavior optimization, host plants nectar, *Lambertia formosa* 2692

Melipona fovea fovea.

- colonial characteristics, nesting behavior, division of labor 2521

Melipona quadrifasciata.

- social behavior, mating behavior, genetics 223

Melipona quadrifasciata anthidioides.

- learning behavior, extinction, punishment, reinforcement, response acquisition 2925

Melipona quadrifasciata anthidioides.

- visual discrimination learning, color, forms, light intensity 2961

Melipona rufiventris.

- visual discrimination learning, color, forms, light intensity 2961

Melipona rufiventris flavolineata.

- foraging behavior, kleptoparasitism, colonies 2657

Meloidogyne.

- photoperiods effects on, juveniles vertical migrations 621

Meloidogyne hapla.

- photoperiods effects on, juveniles vertical migrations 621

Meloidogyne incognita.

- photoperiods effects on, juveniles vertical migrations 621

- soil characteristics effects on juveniles vertical migrations 622

Melospiza undulatus.

- auditory discrimination, auditory perception 4109

- grooming activity patterns, social behavior 3618

Melospiza georgiana.

- song learning, auditory communication 1164

- song, learning behavior, memory 3422

- song, vocalization behavior, ontogeny 3419

Melospiza lincolni.

- vocalization behavior, song, mimicry 2293

Melospiza melodia.

- brood care, nest provisioning 2537

- song, vocalization behavior 3402

Membrane potential.

- role, chemotaxis, sugars, *Spirochaeta aurantia* 1833.

Memory.

- aging, carbon dioxide, amphetamine, morphine, effects on, rats 4025

- amnesia, conditioning, drugs, apomorphine, avoidance behavior, rats 981

- anesthesia, hyperthermia, rats 609

- apomorphine effects on, learning behavior, hippocampus glycoprotein biosynthesis, rats 4337

- associative learning, association analysis, reinforcement, mathematical models 1066

- associative learning, mathematical models 1061

- atmospheric conditions effects on, ionization, rats 567

- aversion learning, conditioning, reactivation, rats 614

- avoidance behavior, drug effects, diazepam, age effects, rats 972

- avoidance behavior, drug effects, orotic acid, chemical stimuli, rats 974

- avoidance behavior retention, α -endorphin, γ -endorphin, rats 3155

- avoidance learning, age effects, mice 1821

- avoidance learning, catecholamines effects on, rats 2989

- avoidance learning, correlation, S-100 protein, nutrient deficiency, rats 4158

- avoidance learning, hypothermia effects on, rats 1820

- avoidance learning, oxytocin analogs effects on, rats 3164

- avoidance learning, strychnine sulfate effects on, rats 1819

- avoidance learning, verapamil effects on, rats 1819

- caffeine, amipipryline, diazepam effects on, rats 3231

- cerebellum ablation, effects on eyelid conditioning, rabbits 4177

- copulation, social behavior, exploratory behavior, duration, rats 1374

- cortex (entorhinal) lesions effects on, mice 2044

- cortex (visual), training, brain proteins, rats 842

- cues, imprinting, rats 1822

- discrimination learning, generalization, pigeons 2968

- discrimination learning, recognition, brain, right hemisphere, man 617

- dopamine effects on, mice 611

- drugs effects on, cocaine, matching-to-sample, pigeons 4283

- electrical stimulation, amygdala, hippocampus, foot shock, rats 917

- ESB effects on, aversive brain stimulation, reticular formation, rats 2055

- ESB effects on, dentate gyrus, rats 3216

- fear conditioning, sex hormones, rats 2957

- feeding behavior, food organisms, novelty, *Minus polyglottos* 2720

- food sources, storage, *Parus palustris* 4021

- forgetting, delayed response, external stimuli, matching-to-sample, pigeons 1811

- forgetting, delayed response, matching-to-sample, cues, pigeons 1808

- forgetting, delayed response, matching-to-sample, proactive interference, pigeons 1815

- forgetting, infants, proactive interference, ontogeny, rats 1823

- hedonic response, conditioning, rats 4022

- hippocampus, early experience effects on, undernutrition, rats 1616

- hippocampus lesions effects on, rats 2037

- hippocampus neurons activity, classical conditioning, rats 868

- inhibition, cycloheximide effects on, saccharin taste aversion learning, rats 4153

- interference, discrimination learning, pigeons 4019

- interference, discrimination learning, reversal learning, retention, pigeons 1809

- internal interval, interference, monkeys 620

- latency, matching-to-sample, delayed response, pigeons 1654

- learning behavior, air, ionization, mice 613

- learning behavior, immobilization, motor activity, rats 2988

- learning behavior, neurophysiology, *Aplysia californica* 2984

- learning behavior, neurophysiology, biochemistry 3115

- learning behavior, novelty, age effects, mice 1825

- learning behavior, population characteristics, *Drosophila* 1770

- learning behavior, song, *Melospiza georgiana* 3422

- learning behavior, spontaneous alternation, rats 1783

- learning behavior, testosterone effects on, juveniles, chickens 3308

- learning, diving behavior, *Pinnipedia* 2903

- lesions effects on, hippocampus, cortex, rats 2041

- lithium effects on, social behavior, perception, *Pisces* 3222

- maze learning, age effects on, mice 2980

- maze learning, exploratory behavior, rats 1817

- maze learning, hippocampus electrical stimulation effects on, rats 1829

- maze learning, hippocampus epilepsy, rats 4023

- maze learning, lesions, cognitive mapping, septum, hippocampus, rats 4236

- maze learning, lesions hippocampus effects on, rats 2014

- maze learning, para-fascicular region lesions, rats 3197

- maze learning, pigeons, rats 1806

- maze learning, rats 1824

- maze learning, rats 4009

- maze learning, rats 4024

- maze learning, scopalamine role, rats 4029

- maze learning, septum lesions effects on, rats 3192

- maze learning, triethyltin sulfate, triethyltin hydroxide effects on, rats 4294

- nerve transmission, hormones, neurotransmitters 604

- neurophysiology, brain, reviews, *Mammalia* 4026

- operant response, delayed response, matching-to-sample, discriminative stimuli, children 1831

- opiates effects on, age effects, rats 610

- recognition, hippocampus, resections, monkeys 616

- recognition, recency effect 605

- reinforcement schedules, response, pigeons 1660

- retention, recovery of function, classical conditioning, fear conditioning,

- lesions, amygdala, hippocampus, trauma, rats 3184

- retention, taste aversion learning, CS, UCS, rats 1736

- retention, visual stimuli, matching-to-sample, *Samuri sciurus*, man 1830

- retroactive inhibition, spatial discrimination learning, maze learning, rats 1818

- reversal learning, forgetting, conditioned response, pigeons 1814

- role, serotonin, rats 1827

- scopolamine effects on, gerbils 3285

- sensory reinforcement, intracranial self-stimulation, hypothalamus, rats 3215

- serial anticipation learning, discrimination learning, rats 4014

- serial order anticipation, hedonic response, reinforcement, rats 1704

- sleep (paradoxical), deprivation, methodology 767

- song, social interactions, *Passerina cyanea* 1165

- spatial discrimination learning, hippocampus, rats 3166

- stimulus control, matching-to-sample, directed forgetting, delayed response, pigeons 1810

- temporal discrimination, endogenous stimuli, rats 1826

- theories 606

- Memory, (continued)**
 trimethyltin effects on, hippocampus damage, rats 4313.
 trimethyltin effects on, rats 4317.
 visual discrimination, bilateral engram storage, corpus callosum, cats 4028.
 visual discrimination learning, deficient mutant, *Drosophila melanogaster* 2985.
 visual discrimination learning, pigeons 4020.
 visual discrimination learning, testosterone effects on, chickens 2965
- Memory short-term,**
 discrimination learning, delayed reinforcement, operant response, pigeons 2986.
- Menidia menidia,**
 reproductive behavior, oviposition, substrate preferences, USA, South Carolina Coast 1294
- Merlippe mercenaria,**
 appendages, handedness, juveniles 779.
- Menstrual cycle,**
 aggressive behavior, *Macaca mulatta* 2343
 effects on visual perception, sensitivity 1897
- Mesocricetus auratus,**
 feeding behavior, activity patterns, diurnal variations, Jamaica, Discovery Bay 3662.
- Meperidine,**
 discriminative stimulus ability, monkeys 1021.
- Mepyramine,**
 effects on aggressive behavior, foot shock, rats 988.
- Mercenaria mercenaria,**
 predation, *Parapeus herbstii* 261.
- Mergus serrator,**
 breeding success, predatory behavior, *Larus argentatus*, USA, Wisconsin 3714.
- Meriones hurrianae,**
 conspecific odors, preferences, chemical communication, scent marking behavior 3428.
 social behavior, aggression, sex differences, dominance 1368.
 taste aversion learning, zinc phosphide, bait shyness 3959.
- Meriones unguiculatus,**
 breeding status, effects on aggressive behavior 1336.
 hsuas, aggressive behavior, scent marking behavior, sexual behavior 4404
 isolation effects on scent marking behavior, brain activity 1918
 mating behavior, inbreeding, avoidance behavior 2497.
 nursing, reproductive behavior, fecundity, fertility 1330.
 odors response, sex differences, intraspecific relationships 1175.
 social behavior development, chemical stimuli effects on, saliva 242
 social behavior, sex differences, social structure 2588
 social interactions, aversion learning, males, conditioned response 576
- Meriones unguiculatus,**
 habituation, escape behavior, open-field behavior, competitive behavior 1633.
- Merops aplaster,**
 song, vocalization behavior, nesting behavior 2304.
- Merops bullockoides,**
 colonies, social organization, spatial distribution 3472.
- Merpestes euopercatus,**
 reproductive behavior, seasonal variations, hormones effects on 1057
- Mesocricetus auratus,**
 copulation, steroids, testosterone propionate, orienting response, females 1319.
 estrones, effects on sexual behavior, females 3321.
 food intake, castration, photoperiod effects on 3747.
 males, drug effects, methadone, motivation, sexual behavior 953.
 nursing, weaning, hormones 1349.
 sexual behavior, pineal body, daylength, photoperiods 184.
 sexual behavior, sex determination, hormones zona effects on 186.
 social behavior ontogeny, social environment, isolation 3636.
 visual discrimination, volume, rearing effects on 1891.
- Mesocricetus brandti,**
 hibernation behavior, longevity, aging 773.
- Metabolic rate,**
 food consumption, circannual rhythms, *Marmota flaviventris* 388.
 glucose, brain, motor activity, *Macaca mulatta* 874.
- Metabolism,**
 activity patterns, energy conservation, sleep 765.
 adrenal gland, social rank effects on, agonistic behavior, mice 1963.
 catecholamine, serotonin, biochemical characteristics, neurotransmitters, delayed response, rats 866.
 diel variations, polysaccharides, activity patterns, *Ozoterpheus senex senex* 749.
 dopamine, striate cortex, substantia nigra, avoidance learning, rats 4214.
 effects on feeding behavior periodicity, rats 1509.
 food intake regulation, hypothalamus 4180.
 hormones, social behavior, reviews 4398.
 5-hydroxytryptamine, catecholamine, interference, drug self-administration modification, levorphanol, rats 4168.
 5-hydroxytryptamine, valproic acid sensitivity, isolation effects on, rats 4357.
 motor activity, telencephalon lesions effects on, rats 912.
 swimming behavior, training, *Xenopus laevis* 691.
 temperature effects, thermoregulatory behavior, *Aotus trivirgatus* 497.
- Metabolites,**
 fluphenazine, 7-hydroxy-fluphenazine, fluphenazine-sulfoxide, drug effects, open-field behavior, hyperactivity, rats, mice 961.
- Metaknowledge,**
 autoshaping, pigeons 3906.
- Metapopulation,**
 juveniles, locomotor activity, *Macrobrachium rosenbergii* 4065.
 larvae, burrowing behavior, *Muraenichthys gymnotus* 2828.
- Metergonline,**
 antagonism, 2,5-dimethoxy-4-methylamphetamine, quipazine, drug effects, operant response, rats 2134.
- Methadone,**
 drug effects, motivation, sexual behavior, males, *Mesocricetus auratus* 953.
 intrauterine exposure, effects on behavior, monoamines, brain, rats 1606.
 intrauterine exposure, effects on hyperactivity, motor task performance, sleep, laboratory animals 4276.
 intrauterine exposure, effects on operant response, mice 3227.
- Methamphetamine,**
 drug effects, activity patterns, posture, *Callicthrix jacchus* 971.
 drug effects, apomorphine, licking behavior, sniffing, rats 2127.
 effects on exploratory behavior, mice 1017.
 effects on exploratory behavior, mice 2085.
 intrauterine exposure, effects on locomotor activity, activity patterns, rats
- Methamphetamine, (continued)**
 3243
- Methaqualone,**
 drug effects, social behavior, sexual behavior, *Macaca mulatta* 1024.
- Methocarbamol,**
 intracranial self-stimulation, neurophysiology, rats 4273.
- Methodology,**
 aberrant behavior therapy, veterinary medicine 4448.
 activity patterns monitoring, electronic equipment, microwave radiation, radar, remote sensing 1079.
 analysis, man effects on animals social behavior 1082.
 behavior, activity, measurements, *Entamoeba histolytica* 1083.
 behavior assessment, infants 4441.
 brain ablation, effects on consummatory behavior regulation, rats 902.
 cages, equipment, rats, mice 1090.
 cerebrospinal fluid, sampling, cisterna magna, guinea pigs 1095.
 data acquisition, computer applications, maternal behavior, mice 1094.
 drug effects, water lick paradigm, conditioned suppression, rats 3286.
 drug self-administration, syringes, rats 1091.
 electronic equipment, light intensity 1070.
 electronic equipment, temperature stimuli, skin 1073.
 electrophysiological recording, brain, electrodes 1081.
 equipment, drinking behavior, rats 4432.
 equipment, intracranial self-stimulation, ESB 4420.
 equipment, social behavior, mice 4435.
 estimation, organic matter ingestion, sediments, detritus feeders, *Nucula annulata* 2613.
 evaluation, alcohol intoxication, mice 3267.
 exploratory behavior, habituation, stimuli specificity, drug effects 1078.
 eye movement, photoelectric properties, measuring techniques 1072.
 eye movements stabilization, receptive field mapping, *Primates* 4442.
 feeding behavior, physiology, correlation analysis, rats 401.
 locomotor activity, chickens 3337.
 measuring techniques, social structure, dominance, cattle 3339.
 movements, radio-tagging, aberrant behavior, *Aythya valisineria* 4425.
 neurophysiology, electrophysiological recording, activity patterns 810.
 night activity, cameras, *Insecta* 3335.
 odors attractancy, hamsters 1922.
 offspring recognition, mother offspring interactions, horses 2548.
 operant conditioning, training, blood pressure, self-assessment, *Papio cyncephalus* 1098.
 pheromone traps, flight activity measuring techniques, *Tortricidae* 684.
 radio-tagging, movements, aquatic environment, *Chelonidae* 4423.
 radio-tagging, movements, *Trichosurus vulpecula*, *Lepus europaeus*, *Capra hircus* 4428.
 rearing, social environment, *Gorilla gorilla gorilla* 4439.
 sleep (paradoxical), deprivation, memory 767.
 statistical analysis 1080.
 statistical analysis 2191.
 statistical analysis 2193.
 statistical analysis, biometrics 2192.
 surgery restraints 4421.
 tagging, remote sensing, reproductive behavior, migrations, *Zenaida macroura* 1089.
 tail-pinch behavior, rats 4431.
 urine odors olfactory discrimination, gerbils 2203.
 vision, behavior analysis, goggles, *Aves* 4426.
 visual perception, visual discrimination, gerbils 721.
- 5-Methoxy-N, N-dimethyl tryptamine,**
 effects on feeding behavior, rats 4365.
- Methyl bromide,**
 taste aversion learning, toxicity testing, rats 3965.
- α -Methyl-p-tyrosine,**
 effects on avoidance behavior, mice 2084.
- 3,4-Methylenedioxymphetamine,**
 effects on behavior, physiology, monkeys 1022.
- 4-Methylhistamine,**
 effects on aggressive behavior, foot shock, rats 988.
- Methylmercury,**
 intrauterine exposure, effects on activity patterns, neonates, rats 4304.
 intrauterine exposure, effects on escape behavior, avoidance learning, rats 1612.
 intrauterine exposure effects on learning behavior, rats 4303.
- Methylphenidate,**
 drug effects, arousal, *Saimiri* 741.
 drug effects, avoidance behavior, memory, rats 974.
 drug effects, self-punitive behavior, conditioned response, extinction, *Rattus* 964.
- Methylphenidate acid,**
 effects on arousal, horses 3276.
- Methylscopolamine,**
 effects on exploratory behavior, novelty, rats 3290.
- Methylxanthine,**
 effects on self-injury behavior, rats 3266.
- Metoclopramide,**
 drug effects, sexual behavior, estrus cycle, *Rattus rattus* 954.
 intracranial self-stimulation, neurophysiology, rats 4273.
- Mice,**
 activity patterns, opiates, anticonvulsants effects on 2166.
 age effects, learning behavior, memory, novelty 1825.
 age effects on memory, maze learning 2980.
 age effects on sexual behavior, arousal 3571.
 aggression, hormones effects on 64.
 aggression, neurophysiology, acetylcholine, choline, brain 3162.
 aggressive behavior, biochemistry, epidermal growth factor, renin 3124.
 aggressive behavior, conspecifics, social receptivity, activity, sexual behavior, males, mice 1197.
 aggressive behavior, cyclic AMP, neurotransmitters 3176.
 aggressive behavior effects on renin plasma levels, males 2329.
 aggressive behavior, females, reproductive status effects on 65.
 aggressive behavior, fighting, attack 3452.
 aggressive behavior inhibition, intracranial chemical stimulation, 5-hydroxytryptamine, locomotor activity 847.
 aggressive behavior, isolation effects on 1204.
 aggressive behavior, olfactory bulb lesions effects on 74.
 aggressive behavior, parental behavior, infanticide suppression, sex hormones 68.
 aggressive behavior, pregnancy effects on 3449.

Mice, (continued)

aggressive behavior, rearing effects on 1201
 aggressive behavior, sex hormones effects on, females 2334
 aggressive behavior, testosterone effects on, females 2341
 aggressive behavior, threatening behavior, males 1208
 agonistic behavior, calcium valproate, aminoxyacetic acid effects on 4390
 albumin, genes, inbreeding, cognitive ability, locomotor activity 1588
 albinism, genetic factors, exploratory behavior, novelty 2886
 alcohol effects on open-field behavior 3277
 amphetamine effects on exploratory behavior 3240
 amygdala lesions, effects on novelty avoidance behavior 4240
 anophthalmic, sleep (paradoxical), tongue, nose hair movements 1948
 apomorphine effects on stereotyped behavior, climbing 3301
 auditory stimuli, environmental effects, neonates, thyroxine, audiogenic seizures 1923
 aversion learning, defensive behavior, burying behavior 3975
 avoidance behavior, amphetamine effects on 3084
 avoidance behavior, anatomy, correlation, hippocampus, neurons, genetic relationship 802
 avoidance behavior, brain lesions effects on 881
 avoidance behavior, chlorazepoxide effects on, antidepressants 2080
 avoidance behavior, circadian rhythms, phase shift, benzodiazepine effects on 3103
 avoidance learning, brain development 1760
 avoidance learning performance, genetic factors, neurons anatomy 1587
 avoidance learning, temperature effects on 3973
 benzene, effects on stereotyped behavior 3254
 carterlein, cholecystokinin octapeptide, diazepam, effects on exploratory behavior 4335
 caffeine effects on avoidance learning, prenatal experience 1604
 cages, methodology, equipment 1090
 cerebrospinal fluid, mediation, stereotyped behavior, neurotransmitters, substance P 867
 chronic exposure, neurotransmitters, L-DOPA, benzerazide, drug effects, locomotor activity 791
 classical conditioning, food deprivation 550
 consummatory behavior, temperature perception, parasites effects on, lead 413
 convulsions, running, physiology mechanisms 4070
 copulation, latency, space effects, cages, *Peromyscus maniculatus* 1322
 cortex (entorhinal) lesions, effects on learning behavior 2044
 corticosteroids, plasma levels, stress effects on 1117
 cyclic GMP effects on aggressive behavior 1953
 DFP effects on apomorphine, climbing 990
 di-n-propylacetate, effects on γ -aminobutyric acid distribution, convulsions, aggressive behavior 4348
 diabetes, effects on naloxone sensitivity, food intake 4164
 discrimination learning, genetic factors 2885
 diurnal variations, drinking behavior 4141
 dominance, parasites effects on, *Heligmosomoides polygynus* 1230
 drug effects, benzodiazepines, grooming, intracranial chemical stimulation, adrenocorticotrophic hormone, β -endorphin 2135
 drug effects, dopamine agonists, apomorphine, naloxone, chloramfetamine 984
 drug effects, L-5-hydroxytryptophan, walking 379
 drug effects, morphine, stereotyped behavior, locomotion, sociological aspects 1049
 drug effects, naloxone, aggressive behavior 2119
 drug effects, naloxone, discrimination learning, inbreeding, strains 996
 drug effects, neuroleptics, grooming, dopamine, chemoreceptors 856
 drug effects, tetrahydrocannabinol, females, environmental effects, hormones, males 2130
 drugs effects on alcohol locomotor activity induction 967
 drugs, morphine, enkephalin, maze learning, Y-maze 594
 effects on, alcohol effects on seizures susceptibility 2108
 ESB, central gray, aversion learning 2054
 escape behavior, stress effects on, social environment 2237
 exploratory behavior, atropine effects on 3287
 exploratory behavior, brain weight 1111
 exploratory behavior, cognitive ability, trisomy 3850
 exploratory behavior, methamphetamine effects on 2085
 exploratory behavior, novelty, age effects on 3363
 exploratory behavior, novelty, hybrids, inbreeding 4465
 exploratory behavior, psychotropic drugs effects on 1017
 feeding behavior, food intake, obesity, satiety, hormones 385
 feeding behavior, measuring techniques, equipment 4436
 fighting, castration, testosterone effects on, males 1207
 fighting, drugs, shock, benzodiazepine 77
 fluphenazine decanoate effects on activity patterns, locomotion 4289
 food organisms, factors affecting predatory behavior, chemoreception, *Crotalus* 733
 genotype-environment interactions, open-field behavior, escape learning, avoidance learning 2887
 gnawing, stereotyped behavior, neuroleptics effects on 952
 grooming, corticosterone, glucose metabolism, brain 4213
 habitat preferences, nests 3567
 haloperidol, effects on motor activity, learning behavior 4379
 halothane, acute toxicity, chronic effects, dominance, sexual behavior 941
 hormones effects on lordosis behavior, ablation, adrenal gland 2177
 housing effects on open-field behavior, isolation stress 1622
 inbreeding effects on maternal behavior, nesting behavior 1354
 inheritance, agonistic behavior, males 2339
 intrauterine exposure, toluene, effects on open-field behavior 3255
 lithium effects on aggressive behavior, testosterone role 2183
 isolation effects on social behavior 1617
 ketamine effects on locomotor activity, pain perception, mediation 4332
 lead effects on open-field behavior, activity patterns 3268
 lead effects on open-field behavior, aggressive behavior 4291
 learned helplessness, noriprinyline effects on, stress 4288
 learning behavior, memory, air, ionization 613
 lithium isotypes, effects on motor activity 4286
 locomotor activity, depression, phenobarbital effects on 2111
 locomotor activity, enkephalin analogues effects on, strains 2112
 locomotor activity, neonates, paternal effects 3883
 locomotor activity, stimulants, striate cortex lesions effects on 957
 males aggression, isolation effects on, females 1198
 maternal behavior, data acquisition, computer applications 1094
 maternal behavior, nesting behavior, progesterone effects on, genetic factors

Mice, (continued)

3848
 mating behavior, mutants, experience effects on, mutants 3564
 maze learning, discrimination learning, measuring techniques 2201
 maze learning, early experience effects on, social environment 3887
 memory, avoidance learning, age effects 1821
 memory, operant conditioning, dopamine effects on 611
 methadone, intrauterine exposure, effects on operant response 3227
 methodology, evaluation, alcohol intoxication 3267
 morphine, L-glutamate, effects on feeding behavior, neurochemistry 3297
 mother-offspring interactions, communication, ultrasound 2552
 motor activity control, cerebellum, drug effects 4173
 motor activity control, halothane effects on 3282
 motor activity, stimulants response, lithium effects on 1015
 naloxone, effects on exploratory behavior, grooming 3270
 neonates, locomotor activity, chemical stimuli, males urine 3593
 nest building, maternal behavior, pregnancy 3600
 neurons, colliculus, anatomy 789
 obesity, feeding behavior, suckling behavior 1502
 obesity, taste aversion learning 1767
 observational learning, models effects on 599
 olfactory bulb lesions, effects on exploratory behavior 4224
 open-field behavior, anti-predator behavior, escape behavior, social behavior 3837
 open-field behavior, choline acetyltransferase, exploratory behavior, estrus cycle 1109
 open-field behavior, emotional behavior 3358
 open-field behavior, hyperactivity, drug effects, metabolites, fluphenazine, 7-hydroxy-fluphenazine, fluphenazine-sulfoxide 961
 oxytocin, vasopressin, effects on grooming, escape behavior 4405
 parasites, lead, effects on parasites, activity patterns 3229
 parasites, migrations, survival, immunity, *Ancylostoma caninum* 1125
 parental behavior, social rank, males 2547
 parental care, effects on maturation 3603
 PCB, intrauterine exposure, effects on avoidance learning 3260
 peptides pituitary effects on short-term behavior 1038
 phenobarbital, intrauterine exposure, effects on open-field behavior, activity patterns 3245
 phenobarbital, prenatal experience, effects on activity patterns 1609
 phosphatidyl choline, diets, effects on avoidance learning 3120
 predation, drug effects, serotonin, inducers, reversal learning, rats 2083
 predatory behavior, aggression, prey 1515
 prednisolone, intrauterine exposure, effects on maturation, locomotor activity 4292
 prolactin effects on aggression, maternal behavior 2180
 psychotropic drugs, side effects, effects on maze learning, motor activity 975
 pyrimethamine effects on discrimination learning, tuning 3236
 reproductive behavior, breeding success, genetic factors 3849
 reproductive strategy, breeding success, parental behavior 2543
 septum lesions, aggressive behavior, social environment effects on 4248
 sexual behavior, aging effects on 3575
 shock effects on aggressive behavior, attack 2338
 shock effects on aggressive behavior, defensive behavior 2335
 shock, learned helplessness, runway learning, aversion, appetitive conditioning 1754
 short term memory, inhibition, protein biosynthesis, avoidance learning 1828
 sleep and wakefulness, behavioral genetics, strains 4142
 sleep, ethanol effects on 959
 sleep (REM), deprivation, dominance, females 1944
 social behavior, aggressive behavior, kinship 3632
 social behavior, methodology, equipment 4435
 social behavior, social structure, social rank 3629
 social environment, isolation, aggressive behavior, hormones 1196
 social interactions, aggression, dominance, testosterone, binding, central nervous system 1045
 social organization, territorial behavior, sexual behavior 2585
 social rank, agonistic behavior, adrenal gland 1963
 stereotyped behavior, attention, maze learning, dopamine, drugs 982
 stereotyped behavior, intracranial chemical stimulation, neurotransmitters, peptides 926
 stress, analgesia, classical conditioning, opiates 4479
 stress effects on corticosterone plasma levels, electric fields perception 1921
 survival adaptations, predators, cataplexy 1575
 taste aversion induction, toxicity, trichloromethane 4321
 taste aversion learning, age effects, extinction 1631
 testosterone plasma levels, social rank, dominance, males 2376
 3,4,3',4'-tetrachlorobiphenyl, effects on motor activity 940
 toluene, effects on, operant conditioning, learning behavior 3252
 toluene, effects on schedule-induced behavior 3253
 trimethyltin, effects on motor activity, operant response 4318
 wheel running, circadian rhythms, photoperiod effects on 4139
Micrathena gracilis, webs, orientation, solar radiation, effects on, thermoregulation 2998
Microchiroptera, escape behavior, visual evoked response, visual stimuli, phototaxis 1892
Microorganisms, effects on oviposition stimulation, *Hylemya antiqua* 129
 motility, locomotion, measuring techniques 4422
Micropertus salmoides, foraging behavior, food organisms ingestion, *Lepomis cyanellus*, *Lepomis macrochirus* 3691
Microtus, digging behavior, activity patterns, substrate preferences 1573
 food organisms, abundance, diets, *Asio otus*, British Isles, Scotland 1468
Microtus agrestis, olfactory discrimination, conspecific odors 4113
Microtus arvalis, habitat utilization, activity patterns, mobility 3819
Microtus breweri, aggressive behavior, exploratory behavior, demography 2330
 social behavior, population density effects on 236
Microtus canadensis, mating behavior, copulation 3569
Microtus ochrogaster, aggressive behavior, population dynamics, seasonal variations 3455
 intraspecific relationships, abortion, males, sexual behavior 2505

- Microtus ochrogaster**, (continued)
mother-offspring interactions, effects on social behavior 3568
pair bond, reproductive behavior, aggression 191
social behavior, ontogeny 3637.
- Microtus oeconomicus**,
mating behavior, copulation 3569
- Microtus pennsylvanicus**,
aggressive behavior, population dynamics, seasonal variations 3455.
anti-predator behavior, avoidance behavior, *Blarina brevicauda* odors 2858.
mother-offspring interactions, effects on social behavior 3568.
nesting behavior, lactation, USA, New York 2504.
social behavior, ontogeny 3637.
social behavior, population density effects on 236.
swimming behavior, sewage sludge effects on, crop fields 2842.
- Microtus pinetorum**,
ontogeny, olfactory perception, odors, nests 3876.
- Microtus townsendii**,
aggressive behavior, sex hormones, drug effects, testosterone, scopalamine 69.
territorial behavior, aggressive behavior, population dynamics 3476.
- Microtus xanthognathus**,
mating behavior, copulation 3569.
overwintering behavior, nesting, communities, USA, Alaska 1570
- Microweav radiation**,
effects on avoidance learning, *Coturnix coturnix japonica* 2950.
monitoring methodology, electronic equipment, activity patterns, radar, remote sensing 1079.
- Mictyris platycheles**,
avoidance behavior, visual stimuli 560.
- Midbrain**,
cortex (auditory), neurons, auditory stimuli, analytical techniques, Rana temporaria 732.
electrophysiological recording, delayed response learning behavior, motor activity, cats 843.
electrophysiological recording, sleep, cats 3111.
ESB, effects on vocalization behavior, *Gecko gecko* 3218
ESB, orientation habituation, cats 3211.
ESB, predatory behavior, hypothalamus lesions, rats 3188.
hypothalamus interaction, effects on aggression, cats 66.
intracranial chemical stimulation, glutamate, effects on defensive behavior, rage, cats 4274.
lesions, dopamine, locomotor activity, open-field behavior, rats 3175.
lesions, effects on copulation, rats 909.
lesions, effects on feeding behavior, locomotor activity, rats 3202.
lesions, effects on sexual receptivity, rats 1334.
nucleotides levels, sleep and wakefulness, rats 770.
904
nuclei, lesions, hormones, circadian rhythms, locomotor activity, rats 904.
role, aggressive behavior, cats 4270.
- Migration**,
spring, *Delichon urbica*, Romania 661.
- Migrations**,
age effects, sex differences, *Parulidae* 655.
annual cycles, *Balaena mysticetus*, Beaufort Sea 3025.
annual cycles, *Balaena mysticetus*, USA, Alaska, Cape Lisburne 3026.
aquatic animals, geographical distribution, Aves, Beaufort Sea, USA, Alaska 1849
autumn, range, *Syrphidae*, Switzerland 4038
avoidance behavior, hydrocarbons, *Oncorhynchus* 2824.
Balaena mysticetus, USA, Alaska Coast 3024.
biological genetics, reproduction, mathematical models 1060.
birds of prey, census, weather, spring, *Ciconia ciconia*, *Grus grus*, *Aquila pomarina*/clanga, *Aquila pomarina* 1850.
body weight, overwintering, *Sylvia atricapilla*, Tunisia 4052.
Cathartes aura, *Cathartes burrovianus* 4060.
Charadriiformes, Iceland 652.
climatic conditions effects on, *Nilaparvata lugens* 442.
dispersal, sex differences, *Canachites canadensis* 664.
distribution, comparative studies, *Coregonus artedii*, *Coregonus clupeaformis*, Canada, James Bay 648.
diurnal variations, horizontal distribution, zooplankton, *Mastigias*, Caroline Is., Palau 627.
Empidonax minimus, Canada, Ontario 3021.
fall, orientation, Aves, Canada 4050.
families, *Phylloscopus trochilus* 3863.
feeding behavior, *Eschrichtius robustus*, Bering Sea, Chukchi Sea, Beaufort Sea 667.
feeding behavior, ontogeny, juveniles, *Haemulon flavolineatum*, *Haemulon plumieri*, US Virgin Is., St. Croix 3873.
flight activity, altitude, Aves 658.
flight activity, Aves, Caspian Sea 4053.
flight activity, radar, *Persectania ewingii*, *Heliopsis punctiger*, *Agrotis munda*, Australia, Bass Strait 1835.
flight, capture-recapture studies, *Syrphidae*, Switzerland 4039.
flight speed, *Branta canadensis* interior, *Anser canadensis caeruleus*, *Anas platyrhynchos* 3017.
food availability, *Charadrii* 4051.
geographical distribution, adults, juveniles, *Empidonax flaviventris* 3016.
geographical distribution, *Falco peregrinus tundrus*, USA, Rhode Island Coast 2508.
home range, social organization, *Odocoileus virginianus*, USA, Minnesota 3626.
homing behavior, overwintering, *Passeriformes* 3013.
locomotor activity, diel variations, light intensity, feeding behavior, *Nemobius sylvestris* 636.
navigation behavior, radar, Aves 3020.
navigation behavior, role, light polarization, *Corixidae* 1841.
nesting behavior, early experience effects on, *Fringilla coelebs* 3874.
night, orientation, Aves 3019.
olfaction, *Tadarrida brasiliensis mexicana* 4061.
orientation, celestial cues, *Erit hacus rubecula* 4057.
orientation, magnetic fields, *Sylvia atricapilla*, *Erit hacus rubecula* 3014.
orientation, rheotaxis, magnesium, *Pisces* 3010.
orientation, water currents, *Salmo gairdneri* 3009.
Panulirus cygnus 1187.
Parus ater, age composition, Switzerland 1851.
periodicity, environmental effects, *Anguilla australis*, *Anguilla dieffenbachii*, New Zealand 650
population density, annual variations, *Megaptera novaeangliae*, Tropical Pacific
- Migrations**, (continued)
Ocean 666.
population dynamics, thermoregulatory behavior, *Danaus plexippus* 2813.
reproductive behavior, geographical distribution, *Gerygone fusca*, *Gerygone levigaster*, *Gerygone mouki*, Australia 478.
reproductive behavior, imprinting, *Caretta caretta* 2906.
reproductive behavior, methodology, tagging, remote sensing, *Zenaida macroura* 1089.
seasonal variations, abundance, *Fulica americana americana*, USA, Colorado 3015.
seasonal variations, daily, *Acipenser transmontanus*, USA, Washington, Columbia R. 1847.
seasonal variations, overwintering, *Larus ridibundus*, Switzerland 657.
seasonal variations, sex differences, *Sus scrofa*, USA, Tennessee 485.
sewage treatment plants, *Anatidae*, Germany, Fed. Rep. 654.
sexual behavior, *Eschrichtius robustus*, USA, California Coast 2489.
social behavior, hyperphagia, *Branta canadensis*, USA, Minnesota 2571.
spawning, feeding, geographical variations, seasonal variations, *Gadus morhua callarias*, Baltic Sea 651
surveys, seasonal variations, Aves, USA, Alaska, Shemya I 656.
survival, measuring techniques, tagging, marine organisms, *Reptilia* 1087.
survival, parasites, immunity, *Ancylostoma caninum*, mice 1125.
swimming behavior, water flow velocity, horizontal distribution, juveniles, *Salmo trutta*, *Salmo salar* 469.
synoptic-scale wind systems, *Phoebastria sennae*, *Urbanus proteus*, *Agraulis vanillae*, *Pteris caenia* 3007.
temperature preferences, reproductive behavior, *Pardosa laura* 2991.
tidal rhythm, juveniles, adults, *Cranon cranon*, Wadden Sea 624.
timing, temperature, food availability effects on, *Fringilla coelebs* social interactions, *Fringilla montifringilla* 3012.
weather effects on, *Anser caeruleus*, USA, Texas 653.
winter, food availability, territorial behavior, *Phylloscopus trochiloides*, India 87.
- Milk**,
reduction effects on play, grazing, juveniles, *Odocoileus virginianus* 2232.
- Milk production**,
weather, seasonal variations, emotionality, *Bub bubalis* 4452.
yield, locomotor activity, sequence, cow entry order, orientation, cattle 1854.
- Milvus migrans**,
nesting behavior, habitat preferences 2529.
- Milvus milvus**,
feeding behavior, food preferences, seasonal variations, British Isles, Wales 357.
- Mimicry**,
aggressive behavior, coloration, *Saitis piscular* 2798.
bioluminescence, interspecific relationships, predation, *Photuris* 28.
crypsis, preferences, algae, *Puguetia producta* 3771.
death feigning, predatory behavior, *Haplochromis livingstoni*, Africa, Malawi L. 1462.
social behavior, convergence, *Rhinophthalmus roxellanae* 3764.
song, breeding success, *Passerina cyanea* 2292.
song, vocalization behavior, *Melospiza lincolni* 2293.
- Mimus polyglottos**,
feeding behavior, food organisms, novelty 2720.
- Mimus polyglottos**,
polygamy, paternal behavior, reproductive behavior 3552.
- Miophthalmus talapoin**,
sexual behavior, aggressive behavior, males, females dominance, sex hormones effects on 3573.
- Mirafra rufocinnamomea**,
visual communication, geographical variations 2303.
- Mirounga angustirostris**,
agonistic behavior, social interactions, males 3448.
competition, reproductive effort, weaning, age, population density 2484.
- Mirounga leonina**,
aggressive behavior, maternal behavior, females 2545.
interspecific relationship, aggressive behavior, *Arctocepalus pusillus*, Namibia, Van Reenen Bay 480.
mating behavior, dominance, aggression, vocalization behavior, males 1211.
- Miscophus americanus**,
ecological distribution, nesting behavior, habitat 2412.
- Miscophus slosonae barberi**,
ecological distribution, nesting behavior, habitat 2412.
- Miscophus slosonae slosonae**,
ecological distribution, nesting behavior, habitat 2412.
- Misgurnus anguillicaudatus**,
food attractancy, feeding behavior, mathematical models 2683.
- Misumena valia**,
predation, food preferences, host plants effects on 273.
- Mixed schedule**,
stimulus control, operant response, pigeons 1649.
- Mobbing**,
anti-predator behavior, *Passeriformes*, *Circus cyaneus* 3816.
anti-predator behavior, *Riparia riparia*, *Streptopelia decaocto* 2849.
anti-predator behavior, seasonal variations, *Otus asio*, *Turdus migratorius* 2840.
- Mobility**,
activity patterns, habitat utilization, *Microtus arvalis* 3819.
flight, diurnal variations, *Helicoverpa armigera* 3097.
social behavior, attraction, conspecifics, sexual dimorphism, rats 2578.
- Modeling**,
measurements, behavior, reinforcement, fixed interval schedules, pigeons 536.
- Models**,
brain, cortex, visual perception, patterns 1074.
effects on mice, mice 599.
emotional behavior, fixed ratio schedule, depression, *Saimiri* 543.
feedback, circadian rhythms, locomotor activity, *Hemideina thoracica* 751.
feeding behavior, food availability, ingestion, optimization 253.
feeding, drinking, threshold 3332.
foraging behavior, optimization, predator-prey interactions 3654.
life cycle, *Coregonus artedii*, *Coregonus clupeaformis*, Canada, James Bay 648.
matching-to-sample, discrimination learning, pigeons 588.
mating behavior, cooperation, evolution 505.
natural selection, behavioral genetics, altruism 3841.
neurons adaptations, classical conditioning, learning 1971.
performance, variable interval schedule, matching 1065.
population density effects on spatial distribution 1215.
population dynamics, role, ethology, *Insecta* 2785.

Models, (continued)

simulation, capture-recapture studies, sex pheromone pheromone traps, *Plutella xylostella* 12.
sleep (paradoxical), endogenous stimuli, genetics 772.

Modiolus modiolus,
odors, chemoreception, *Homarus americanus* predation 2609

Molossus ater,
activity patterns, circadian rhythms, temperature effects on 3092

Molossus molossus,
mother-offspring interactions, vocalization behavior, juveniles 2550

Molothrus ater,
discrimination learning, sound performance, operant conditioning 1771
egg laying, *Sterna hirsuta* nests 3545
grooming, display, juveniles 38
interspecific relationships, host-parasite interactions, defensive behavior, *Dendroica petechia* 477
mating behavior, social organization 3546
parasitism, brood care, feeding behavior, *Regulus calendula* 2525

Molothrus ater,
song bioacoustics, effects on females copulation posture 1163

Molting,
activity patterns, stereotyped behavior, *Rhodnius prolixus* 2791
behavior, neurophysiology, abdomen, rhythms, *Schistocerca* 1934
predatory behavior, visual stimuli, mechanical stimuli, *Rana* linears 3669

Molding behavior,
synchronization, chemical communication, juveniles, *Macrobrachium rosenbergii* 2

Monasa morpheus,
predatory behavior, prey handling, energetics, food organisms, *Insecta* 3712

Moenssin,
effects on reproductive behavior, estrus, cattle 3353

Monitoring,
activity patterns, electronic equipment, microwave radiation, radar, remote sensing 1079
methodology, electronic equipment, nesting behavior, *Aves* 2198
methodology, Television, open-field behavior, locomotor activity, rats 2202
telemetry, swimming behavior, *Salmo trutta* 693

Monkeys,
age, sexual behavior, sex hormones 2511
agonistic behavior, social interactions, scent marking behavior 3643
D-amphetamine, drug effects 3304
amphetamine effects on schedule-induced behavior 4278
amygdala lesions effects on exploratory behavior, emotional behavior 2061
anudepressants effects on operant response 1032
balance, tails length 699
buspirone, effects on conflict behavior 3259
classical conditioning, blood pressure, heart rate 2946
discrimination learning, vocalization behavior, conditioning, operant response 1799
drug effects, clozapine, fixed interval schedule, stimulus-shock termination 2173
drugs, cocaine, schedule-induced behavior 1028
drugs, nicotine, schedule-induced behavior 1030
emotional behavior, fixed ratio schedule, depression, models 543
etorphine, mependine, morphine, codeine, discriminative stimulus ability 1021
fear conditioning, effects on adrenaline plasma levels 2231
fear conditioning, effects on heart rate 2229
feeding behavior, neurons, role, amygdala 2009
feeding behavior, role, hypothalamus (lateral), amygdala 872
fixed interval schedule, electrical stimulation, fixed time schedule, operant response, chain schedule 1714
food intake, satiety, role, small intestine 1970
forus lesions, amnesia, short term memory, long term memory 619
go-no-go discrimination learning, color, cortex (prefrontal) neurons activity 4210
grasping, effects on purkinje fibers, neurons 879
6-hydroxydopamine, brain, effects on noradrenaline levels, motor activity 3179
infants, separation, effects on immune response (cell-mediated) 527
isolation effects on social behavior, mother-offspring interactions 1356
manipulation, visual stimuli, effects on cortex (prefrontal) EEG 870
memory, intertrial interval interference 620
memory, recognition, hippocampus, resections 616
menstrual cycle, aggressive behavior 2343
3,4-methylenedioxymphetamine, 2,4,5-trimethoxymphetamine,
N,N-dimethyltryptamine, psilocybin, effects on behavior, physiology 1022
mother-offspring interactions, Δ -9-tetrahydrocannabinol effects on 2553
mother-offspring interactions, emotional behavior effects on 1357
motor activity, hand, nervous system, cortex, physiology 875
nystagmus, brain lesions 726
reinforcement, punishment, electrical stimulation, self-stimulation 1711.
reinforcement schedules, temporal discrimination 2976
self-stimulation, reinforcement, etioadrol, dexioadrol 3232.
stereotyped behavior, neurophysiology, reviews 4215.
visual discrimination learning, cortex (visual), neurophysiology, saccadic eye movements 4092.
visual discrimination learning, movements, eye 1797
visual discrimination, lesions, cortex (visual), striate cortex 3209.
visual perception, colliculus role 3061.
visual perception, color, effects on cortex (inferotemporal) neurons response 728.
visual perception, cortex (inferotemporal) lesions effects on 727.
visual stimuli, learning behavior, lesions effects on, amygdala, cortex (temporal) 3208.
visual stimuli, recognition, matching task 724.

Monoamine oxidase,
inhibitors, activity patterns, neurochemistry, rats 3145.

Monoamines,
brain, methadone effects on, intrauterine exposure, rats 1606.

Monochamus alternatus,
attractants identification, aggregation behavior, pest control 1134.

Monochamus scutellatus,
mating, males 1241.

Monodon monoceros,
sexual dimorphism, sexual selection, tusk function, dominance, males 2487.

Monogamy,
sexual behavior, sex differences, *Ficedula hypoleuca* 1297.

Monomorium,

defense mechanisms, agonistic behavior, *Apicotermitinae* 2318

Monomorium pharaonis,
intraspecific relationships, castes, aggression, reproductive behavior 1192.

Monosodium glutamate,
effects on activity patterns, arcuate nucleus necrosis, rats 4322.
effects on motor activity, startle response, rats 4339

Monosodium L-glutamate,
effects on feeding behavior, neurochemistry, mice 3297

Monoterpenes,
food composition, effects on food preferences, *Sciurus aberti* 1508

Mormyridae,
electric communication, species diversity, sympatric populations, Gabon, Ivindo R. 3398.

Morphine,
analgesia, startle response, rats 4372.
aversion learning, rats 1743
discrimination learning, stimulus control, rats 1791.
discriminative stimulus ability, monkeys 1021
drug effects, cerebrum serotonin levels, rats 944.
drug effects, exploratory behavior, sexual behavior, social behavior, males, rats 943
drug effects, locomotion physical activity, conditioning, rats 950
drug effects, physical activity, pons norepinephrine, rats 2142
drug effects, stereotyped behavior, locomotion, sociological aspects, mice 1009
drug effects, taste aversion, lesions, periaqueductal grey area, rats 3186.
drug tolerance, conditioning, latency, rats 2159.
drug tolerance, mydriasis, eye, rats 999.
drugs, maze learning, Y-maze, mice 5594.
effects on avoidance learning, monkeys 3304
effects on food preferences, rats, rats 4386
effects on matching-to-sample, pigeons 4349.
effects on memory, aging, rats 4025
effects on operant response, rats 3274.
effects on shock sensitivity, discrimination learning, rats 989.
effects on taste aversion learning, rats 2116.
food intake, temperature effects, body temperature, rats 1001.
intracranial chemical stimulation, hypothalamus (ventromedial), feeding, norepinephrine, rats 2064
intracranial reinforcement, conditioning, mechanisms, rats 4378.
intracranial self-stimulation, drug self-administration, tegmentum, mediation, opiate receptors, rats 3273.
naloxone, antagonism, chain schedule, acquisition, pigeons 3280
taste aversion learning, post-conditioning exposure effects on retention, rats 3979
tolerance, effects on activity patterns, rats 2122
tolerance, operant conditioning, reinforcement schedules, pigeons 4284.
toxic immobility, drug effects, quipazine, fenfluramine, apomorphine, juveniles, chicks 1980

Morphogenesis,
neurons, crowding effects on, juveniles, *Hemichromis bimaculatus* 3142.

Morpholine,
attractants, chemotaxis, *Salmo* 4044

Morphology,
adaptations, ventilatory behavior, *Platycephalus fuscus* 780.
Apis mellifera, phenology, seeds, *Trifolium repens* 1544.
burrows, effects on vocalization behavior acoustics, *Heleiponops* 33.
coloration, adaptiveness, visual communication 700
competitive behavior, adaptations, competition, males, *Podischnus agenor* 2781.
copulation, *Coenagrion scitulum* 2411.
796
feathers, effects on feeding behavior, *Empidonax traillii* 375.
feathers, maturation, reproductive behavior, agonistic behavior, *Setophaga ruticilla* 513
feeding behavior, *Siphonophora*, *Sargasso Sea*, USA, Washington Coast 278.
females, effects on males hormones, *Streptopelia risoria* 1301.
food organisms, predator-prey interactions, feeding behavior, *Actinophrys* sol, *Colpidium colpoda* 1400
lateral geniculate nucleus, visual deprivation effects on, *Cacaca* 805.
leaves, host plants, effects on feeding behavior, *Adalia bipunctata* 2647
leg, locomotion, *Carabidae* 4069
males, effects on vertical migrations, mating behavior, *Pleuromamma piseki* 422.
maxillary palps, movements, *Gryllus bimaculatus* 4151.
mouthparts, feeding behavior, *Anaximys henseni* 272.
nervous system, brain, behavior, *Elasmobranchia* 830.
nests, nesting behavior, *Agapostemon* 2437
shells, effects on habitat selection, *Paguridae* 424.
sternal horn, aggressive behavior, *Doryphora punctatissima* 1190.

Morphometry,
hnr, thigh, bone biomechanics, jumping, *Prosimi* 806.

Mortality,
development, predators, foraging behavior, larvae, *Chrysopa carnea*, *Hippodamia convergens* 1429.
flocking behavior, reproductive behavior, *Branta canadensis* 2839.
hatching, territorial behavior, *Larus marinus* 2459.
reproductive behavior, reproductive strategy, *Alouatta palliata* 3579.
twins, parental behavior, sheep 3351.

Motacilla alba,
feeding behavior, feeding mechanisms 3726.
roosting behavior, feeding behavior, activity patterns, winter, British Isles, Oxford 1366.

Motacilla cinerea,
nesting behavior, habitat preferences 2468.

Mother offspring interactions,
offspring recognition, sensory stimuli, horses 2548.

Mother-offspring interactions,
activity patterns, infants, man 212.
auditory communication, perception, *Mus musculus* 47.
deprivation, aggressive behavior, rearing, *Papio cynocephalus* 3461.
development, juveniles, *Molossus molossus* 2550.
effects on hydrocortisone plasma levels, *Macaca mulatta* 210.
emotional behavior effects on, *Macaca mulatta* 1357.
feeding, nymphs, *Perisphaerus* 1343.
grooming, tool use, *Macaca fuscata* 4486.
isolation, effects on social behavior, *Macaca nemestrina* 1385.

Mother-offspring interactions, (continued)

- learning behavior, social behavior, *Macaca mulatta* 1356
 - maternal behavior, aggression, *Macaca fuscata* 1358
 - maternal behavior, chemical stimuli, amniotic fluid, dogs 3595
 - maternal behavior, licking behavior, urine consumption, rats 2549
 - maternal behavior, ontogeny, social interactions, infants, *Macaca silenus* 3890
 - maternal behavior, Pan troglodytes 3606
 - maternal behavior, *Rangifer tarandus tarandus* 2546
 - maternal behavior, separation effects on, goats 3599
 - odors, recognition, rearing, sheep 4451
 - parental behavior, effects on social behavior, *Microtus ochrogaster*, *Microtus pennsylvanicus* 3368
 - parental behavior, infants development, *Aotus trivirgatus* 208
 - parturition behavior, *Cervus nippon yoseonensis* 1324
 - play, nervous system development, *Macaca mulatta* 1114
 - play, social behavior, ontogeny, Pan troglodytes, *Pongo pygmaeus* 1628
 - prenatal experience effects on, Aves 198
 - prenatal experience effects on, stress, sheep 1620
 - recognition, olfactory perception, *Rangifer tarandus tarandus* 3597
 - separation, effects on infants, distress, hydrocortisone plasma levels, *Macaca mulatta* 209
 - separation, motor activity, rats 2915
 - sexual behavior, social interactions, groups, *Macaca fuscata* 3574
 - social behavior, body size, sex, sexual dimorphism, *Macropus robustus*, Australia 245
 - social behavior, dominance, play, social interactions, *Cervus elaphus* 1369
 - social behavior ontogeny, *Gorilla gorilla gorilla* 1355
 - social behavior ontogeny, *Macaca mulatta* 2593
 - social rank, play, *Macaca fuscata* 2234
 - social rank, social behavior ontogeny, *Macaca mulatta* 2592
 - suckling behavior, olfactory stimuli, rabbits 3596
 - Δ -9-tetrahydrocannabinol effects on, monkeys 2553
 - ultrasound, communication, mice 2552
 - vocalization behavior, prenatal experience, chickens 3589
 - vocalization behavior, recognition, *Ovis* 3434
- Motility,**
- activity patterns, swimming, *Oxytricha bifaria* 3028
 - chemotactic response, sugars, *Rhizobium leguminosarum* 3029
 - chemotaxis, *Escherichia coli* 628
 - locomotion, gravity effects on, *Naegleria gruberi* 676
 - locomotion, measuring techniques, microorganisms 4422
- Motivation,**
- activity patterns, rhythms, *Varroa jacobsoni* oudemans 3777
 - associative learning, classical conditioning, nictitating membrane response conditioning, rabbits 1762
 - calling behavior, song, *Tadaria brasiiliensis guttata* 1172
 - feeding effects on, discrimination learning CS, rats 552
 - motor activity, estrus cycle effects on, rats 1047
 - parental behavior, brood care, *Sarotherodon mossambicus* 4128
 - self-stimulation, reward, rats 757
 - sexual behavior, drug effects, methadone, males, *Mesocricetus auratus* 953
 - thirst, orientation cues, discrimination learning, rearing learning, rats 742
 - wheel running, *Mammalia* 2245
- Motor activity,**
- activity patterns, phencyclidine effects on, rats 2117
 - activity patterns, rhythms, cattle 3107
 - alcohol= amphetamine effects on, synergism, rats 3234
 - cannabinol effects on, H-reflex, rabbits, man 2074
 - alcohol, 2-ethoxyethanol, intrauterine exposure effects on, rats 4310
 - arousal, cortex, electrical properties 1973
 - avoidance behavior, stress, rats 2239
 - brain, metabolic rate, glucose, *Macaca mulatta* 874
 - circadian rhythms, catecholamines, strains, rats 1586
 - conditioned suppression, shock, apomorphine, diazepam effects on, rats 4392
 - control, cerebellum, drug effects, mice 4173
 - control, cerebellum, halothane effects on, mice 3282
 - control, locomotion, muscles, nerves, cats 696
 - control, man, theories 2188
 - coordination, conation, amygdala, hypothalamus, ventral striatum, thalamus 3131
 - cortex, auditory stimuli, cats 855
 - cortex (motor) electrical stimulation effects on, cats 920
 - cortex, neurophysiology, synergism, dentate nucleus, baboons 871
 - delayed response learning behavior, reticular formation, electrophysiological recording, cats 843
 - development, triphenyltin intrauterine exposure effects on, rats 4307
 - environmental effects, cortex ablation, rats 2029
 - escape behavior, neurons, neurophysiology, *Astascidae* 3134
 - 2-ethoxyethanol effects on, intrauterine exposure, rats 4325
 - fentothion effects on, rats 3247
 - food composition, short-term variations effects on, rats 1500
 - hand, nervous system, cortex, physiology, monkeys 875
 - hegled, neurophysiology, brain, lesions, head, rats 1984
 - 6-hydroxydopamine, brain, effects on noradrenaline levels, monkeys 3179
 - 6-hydroxydopamine, intrauterine exposure, rats 4170
 - 5-hydroxytryptophan effects on, aging, *Caenorhabditis elegans* 4185
 - immobilization, learning behavior, memory, rats 2988
 - intracranial self-stimulation, amphetamine, substantia nigra, mechanisms, rats 4269
 - intracranial self-stimulation, hydergine effects on, rats 3295
 - learning behavior, haloperidol effects on, mice 4379
 - lithium effects on, mice 1015
 - lithium isotopes effects on, mice 4286
 - mother-offspring interactions, separation, rats 2915
 - motivation, estrus cycle effects on, rats 1047
 - muscles, neurons, electrical properties, *Paruroctonus mesasiensis* 826
 - nervous system damage, triethyltin bromide effects on, rats 4327
 - nervous system effects on, *Carausius morosus* 683
 - neurons, excitation, inhibition, defensive behavior, *Astacus* 823
 - neurophysiology, benzene, Δ -amphetamine, toxicity testing, rats 859
 - neurophysiology, brain, vocalization behavior, song, *Serinus canarius* 811
 - nicotine effects on, rats 1037
 - nutrient deficiency effects on, iron, rats 521
 - ontogeny, social environment, rearing, rats 3889
 - opioids effects on, rats 3284
 - orientation, triethyltin effects on, rats 3248
 - phencyclidine effects on, mechanisms, acetylcholine receptors, rats 4342

Motor activity, (continued)

- protein deficiency effects on, diets, rats 1793
 - psychotropic drugs effects on, side effects, mice, rats 975
 - rhythms, rest-activity cycle, lutropin, sheep 3318
 - spinal cord lesions effects on, cats 1983
 - startle response, monosodium glutamate effects on, rats 4339
 - stereotyped behavior, neurophysiology, *Aplysia californica* 4182
 - stereotyped behavior, tetrahydrocannabinol effects on, rats 4290
 - telencephalon lesions effects on, rats 912
 - 3,4,3',4'-tetraachlorodiphenyl, effects on, mice 940
 - thermoregulatory behavior, opioids effects on, cats 4376
 - trimethyltin effects on, mice 4318
 - visual perception, neurophysiology, ethology, niche position, *Rodentia* 1568
 - visual perception, recovery of function, visual deprivation, cats 3057
 - wings, nesting behavior, juveniles, *Coragyps atratus*, Panama 2896
- Motor neurons,**
- activity classical conditioning, cats 4201
- Motor skill,**
- cortex (sensorimotor) ablation effects on, dogs 897
 - learning, vocalization behavior, brain, Aves 833
- Motor task performance,**
- methadone, heroin, intrauterine exposure, effects on, laboratory animals 4276
- Motor vehicles,**
- effects on avoidance behavior movements, *Rangifer tarandus* 491
 - human impact, activity patterns, *Ovis canadensis canadensis* 2863
- Mounting behavior,**
- copulation, competition, *Lygaeus equestris* 1290
 - stridulation, courtship, copulation, *Palmacoxia nana* 2400
- Mouth,**
- movements, brain stem, rats 4203
- Mouthparts,**
- feeding behavior, food intake, body weight, chickens 3341
 - feeding behavior, *Stomatopoda* 262
 - functional morphology, feeding behavior, *Clibanarius longitarsus* 1408
 - functional morphology, feeding behavior, *Gerris* 3699
 - morphology, feeding behavior, *Anaximix hansenii* 272
- Movements,**
- activity patterns, diel variations, *Scapanus orarius* 2853
 - activity patterns, diurnal variations, littoral zone, *Littorina intermedia*, India Coast 1530
 - activity patterns, seasonal variations, *Ovibos moschatus* 2862
 - avoidance behavior, motor vehicles effects on, *Rangifer tarandus* 491
 - body, mating behavior, *Apanteles glomeratus* 3498
 - breeding, radio-tagging, *Chelonia mydas* 4041
 - courtship, *Cervus elaphus roosevelti*, USA, California 2485
 - diurnal variations, host plants, thermoregulation, *Dactyloctenium bicolor* 2790
 - eye, visual discrimination learning, *Macaca arctoides* 1797
 - eye, visual perception, *Pisces* 1887
 - feeding behavior, predation, *Accipiter gentilis*, Sweden 1480
 - feeding behavior, stranding, *Hygophium benoitii*, *Mycophogon punctatum* 3695
 - food organisms, effects on predatory behavior suppression, taste aversion learning, *Onchomys leucogaster* 1764
 - habitat utilization, diets, *Ophedrys aestivus* 3800
 - haulout behavior, radio-tagging, *Phoca vitulina*, Alaska Gulf 3023
 - head, measuring techniques, equipment, cats 4430
 - home range, sex differences, *Enhydra lutris* 4062
 - home range, territorial behavior, *Ochotona princeps* 3830
 - interspecific relationships, encounters, mathematical models, *Arthropoda* 2777
 - maxillary palps, feeding behavior, exploratory behavior, *Gryllus bimaculatus* 4151
 - migrations, olfaction, *Tadarida brasiliensis mexicana* 4061
 - mouth, brain stem, rats 4203
 - nesting behavior, colonial characteristics, *Tapinoma sessile*, *Formica subsericea* 2436
 - oil and gas industry pipelines effects on, *Rangifer tarandus*, USA, Alaska 2864
 - orientation, host plants, *Atherigona soccata* 2784
 - radio-tagging, aberrant behavior, *Aythya valisineria* 4425
 - radio-tagging, methodology, aquatic environment, *Chelonidae* 4423
 - radio-tagging, *Trichosurus vulpecula*, *Lepus europaeus*, *Capra hircus* 4428
 - seasonal variations, ecological distribution, social behavior, feeding, *Corvidae* 2894
 - shells, salinity effects, *Scrobicularia plana* 423
 - spatial distribution, activity patterns, *Felis* 3865
 - spatial distribution, aggregation behavior, sound production, males, *Neococcyphus ensiger* 3467
 - tracking, visual perception, *Canis lupus*, USA, Minnesota 3477
 - U.V. radiation effects on, *Plea leachi* 3067
 - valves, pollution effects, zinc, *Scrobicularia plana* 2776
 - vertical migranents, water temperature effects on, *Daphnia magna* 3772
 - visual perception, neurons, neurophysiology, *Musca domestica* 4076
 - walking, roads effects on, *Odocoileus hemionus* 490
- Mucus,**
- stress reactions, conspecifics, aversion, *Lehmnia valentiana* 1529
- Mud,**
- feeding, sodium requirements, sex differences, *Pteris rapae* 2632
- Muellerianella,**
- reproductive isolation, song, geographical variations 3382
- Multiple schedule,**
- auditory stimuli, conditioned response, temporal perception, pigeons 1758
 - conditioned response, drug effects, rats 2124
 - extinction, behavioral contrast, autoshaping, pigeons 3911
 - fixed ratio schedule, fixed interval schedule, reinforcement schedule, social bonds, juveniles, ducks 1672
 - matching-to-sample, operant conditioning, short term memory, pigeons 1812
 - omission training, tracking, rats 1698
 - operant conditioning, pigeons 3919
 - operant response maintenance, drugs effects on, rats 1018
 - reinforcement schedules, pigeons 3907
 - reinforcement, work preferences, rats 553
 - response, theories, pigeons, rats 1642
 - second-order schedule, conditioned response, pigeons 1759
 - stimulus control, pigeons 3991
- Muraenichthys gymnotus,**
- burrowing behavior, larvae, metamorphosis 2828

Muricide.

- aggressive behavior, tryptophan effects on, rats 2336
 drug effects, tryptophan, rats 2154
 gentling, lesions effects on, hypothalamus (medial), septum, nucleus accumbens 4247
 hypothalamus lesions effects on, rats 4246
 lesions, olfactory bulb, rats 3189
 septum lesions, rats 3199
 sex differences, strains, rats 2337
- Mus,**
 digging behavior, activity patterns, substrate preferences 1573
- Mus minutoides,**
 diets, feeding behavior 1498
- Mus musculus,**
 aggressive behavior, heritability, selection 2884
 aggressive behavior, marking behavior, social hierarchy 1210
 aggressive behavior, social organization, inbreeding 3630
 chemical stimuli, conspecific odors, courtship, vocalization 1182
 food organisms, localization, predatory behavior, chemotaxis, *Crotalus viridis* 1445
 jumping, activity patterns, fitness, genetic factors 1589
 nesting behavior, age, early experience effects on 3592
 ontogeny, olfactory perception, odors, nests 3876
 perception, auditory communication, mother-offspring interactions 47
 prey, escape behavior, *Crotalus viridis* 2856
 reproductive behavior, ontogeny 3565
 social organization, food availability, resource partitioning 3625
 spatial distribution, social organization, territorial behavior, New Zealand 1225
- Musca,**
 food organisms, feeding behavior, *Hyla cinerea* 3680
- Musca autumnalis,**
 feeding, effects on avoidance behavior, grazing, cattle 4453
 larvae, food sources competition 448
- Musca domestica,**
 chemical stimuli, host searching behavior, parasitoids, *Muscidifurax raptor*,
Muscidifurax zaraptor, *Spalangia cameroni*, *Spalangia endius* 3784
 deterrents, homosexuality, males, mating behavior, homosexuality, sex pheromone 116
 flight activity, orientation, visual perception 641
 males sexual behavior, carbon dioxide effects on 107
 neurons, visual perception, visual discrimination 827
 orientation, visual evoked response, eye 704
 orientation, visual perception, tracking, mathematics 706
 strains, body size, effects on, copulation, breeding success 1277
 visual perception, movements, neurons, neurophysiology 4076
 visual perception, tracking, oscillations 713
 visual perception, visual stimuli, flight 709
- Muscarine,**
 mediation, aggression, ESB, hypothalamus, cats 3214
- Musciapra nigrofura,**
 territorial behavior, intraspecific relationships, social behavior, aggression, India 231
- Musciapra striata,**
 feeding behavior, predation, food organisms, *Inachus io* 2710
 nesting behavior, nest building 2481
- Muscidifurax raptor,**
 parasitoids, host searching behavior, chemical stimuli, *Musca domestica* 3784
- Muscidifurax zaraptor,**
 parasitoids, host searching behavior, chemical stimuli, *Musca domestica* 3784
- Muscles,**
 extrinsic syringeal muscles, denervation, vocalization behavior, frequency control, juveniles, chickens 783
 leg, feedback control, *Caracus morosus* 687
 leg, feedback control, electrophysiological recording, *Caracus morosus* 688
 motor activity control, locomotion, nerves, cats 696
 motor activity, neurons, electrical properties, *Paruroctonus mesaensis* 826
 neck, vision, coordination, eye, vestibular nystagmus, cats 3129
 sensitivity, salinity effects, *Scrobicularia plana* 423
- Mustela,**
 circadian rhythms, climate, environmental factors 761
 predation, drugs, cyproterone acetate 396
- Mustela erminea,**
 resting behavior, trees 4472
- Mustela eversmanni,**
 avoidance learning, zinc phosphide, toxicity 3963
- Mustela furo,**
 learning behavior, early experience, play, exploratory behavior 2918
- Mustela putorius,**
 learning behavior, early experience, play, exploratory behavior 2918
- Mustela vison,**
 feeding behavior, food preferences 2750
 feeding behavior, interspecific relationships, *Lutra lutra*, British Isles 380
- Mushti,**
 aggressive behavior, males, *Loxodonta africana* 3459
- Mutants,**
 avoidance learning, *Drosophila melanogaster* 561
 chemotaxis, attractants, β -ketoadipate, *Pseudomonas putida* 629
 eye color, courtship, mating behavior, heterozygosity, *Drosophila melanogaster* 3880
 eye color, mating behavior, *Drosophila melanogaster* 128
 eye pigmentation, phototaxis, *Drosophila melanogaster* 1838
 locomotor activity, circadian rhythms, mice 3106
 mating behavior, experience effects on, mice 3564
 phototaxis, visual stimuli, courtship, *Drosophila melanogaster* 2876
 pigmentation, photoreceptors, phototaxis, *Drosophila* 1884
 sex pheromone, courtship inhibition, *Drosophila melanogaster* 142
 sexual behavior, courtship, *Drosophila* 2628
- Mutation,**
 associative learning, habituation, sensitivity, *Drosophila* 3844
- Mutualism,**
 interspecific relationships, *Dendrolaelaps neodisctus*, *Dendroctonus frontalis* 218
- Myctophum punctatum,**
 diets, feeding behavior, stranding 3695

Myotis daubentonii,

- communication, social interactions 48
- Myotis lucifugus,**
 colonies, predation, Otus asio 3717
 flight activity, vertical distribution, horizontal distribution, streams 4071
- Myrmecusa,**
 social behavior, foraging behavior 2563
- Myrmecobusina,**
 social behavior, foraging behavior 2563
- Myrmecocystus mimicus,**
 foraging behavior, social behavior, territory, spatial variations, temporal variations 1418
- Myrmecoleon,**
 predation, anti-predator behavior, defensive behavior, Formicidae 2810
- Myrmecoleon immaculatus,**
 burrowing behavior, pits construction, soil temperature, light intensity 2801
- Myrmica,**
 colonial characteristics, factors affecting males abundance 1413
- Myrmica rubra,**
 mandibular glands, pheromones, olfactory stimuli 2270
 queens, effects on aggregation behavior, chemical stimuli 1531
 trophallaxis, communication, antennae, information theory 2275
- Myrmica ruginodis,**
 mandibular glands, pheromones, olfactory stimuli 2270
- Myrmica rugulosa,**
 feeding behavior, workers recruitment, trail pheromone 2634
 foraging behavior, workers recruitment, pheromones 2645
 mandibular glands, pheromones, biochemical analysis, olfactory stimuli 2270
- Myrmica sabuleti,**
 mandibular glands, pheromones, olfactory stimuli 2270
- Myrmica scabrinodis,**
 mandibular glands, pheromones, olfactory stimuli 2270
- Myrmica schenckii,**
 mandibular glands, pheromones, olfactory stimuli 2270
- Mytilus,**
 food organisms, diets, *Cancer irroratus*, Canada, Nova Scotia Coast 2605
- Mytilus edulis,**
 food organisms, abundance, food preferences, *Haemaphysalis ostralegus* 3716
 odors, chemoreception, *Homarus americanus* predation 2609
- Myzus persicae,**
 behavior, colonization, light effects, crop protection barriers 1410
 host searching behavior, flight activity 1837
- Nabis americoferus,**
 oviposition, site selection, host plants 3520
- Nabis roseipennis,**
 oviposition, site selection, host plants 3520
- Naegleria gruberi,**
 locomotor activity, chemotaxis, substrate specificity 630
 motility, locomotion, gravity effects on 676
- Naja mossambica pallida,**
 prey recognition, stimulus control, learning behavior 3987
- Nalorphine,**
 effects on food intake, water intake, rats 955
- Naloxone,**
 dopamine agonists, drug effects, climbing, activity patterns, mice 984
 drug effects, aggressive behavior, mice 2119
 drug effects, discrimination learning, inbreeding, strains, mice 996
 drug effects, feeding behavior, food preferences, nutrients, rats 983
 drug effects, food intake, chemoreceptors, rats 946
 drug effects, MIF-1 peptides, drinking behavior, sex differences, rats 2156
 drug effects, olfactory discrimination, odors, alternation learning, rats 2107
 drugs effects on copulation, males, rats 4373
 effects on amnesia, rats 1013
 effects on avoidance learning, rats 787
 effects on distress vocalization behavior, guinea pigs 49
 effects on drinking behavior, rats 1995
 effects on drinking behavior, sucrose solutions, rats 2133
 effects on exploratory behavior, grooming, mice 3270
 effects on fear conditioning, rats 2113
 effects on feeding behavior, rats 2110
 effects on, feeding behavior, sheep 3753
 effects on food consumption, rats, rabbits, cats 3265
 effects on food intake, insulin, novelty, rats 4394
 effects on food intake, reinforcement, rats 4375
 effects on food intake, water intake, rats 955
 effects on grooming, rats 3364
 effects on grooming, shock stress 2238
 effects on hormones, ejaculation, rats 2175
 effects on neurophysiology, water intake, food intake, rats 1011
 effects on water intake, diabetes insipidus, rats 2125
 food intake, temperature effects, body temperature, rats 1001
 intracranial chemical stimulation, enkephalin drug effects, activity patterns, rats 949
 intracranial chemical stimulation, hypothalamus (lateral), ventricle (lateral), drinking, rats 2065
 intrauterine exposure, effects on learning behavior, ontogeny, rats 1611
 intrauterine exposure, effects on maze learning, startle response, olfactory discrimination, rats 3249
 morphine, antagonism, chain schedule, acquisition, pigeons 3280
 nictitating membrane response conditioning, inhibition, rabbits 4353
 potentiation, intracranial chemical stimulation, reinforcement, chlorpromazine, rats 2001
 sensitivity, food intake, diabetes effects on, mice 4164
- Naltrexone,**
 drug effects, codeine, antagonists, operant response, behavior maintenance, Macaca mulatta 1027
 drug effects, narcotics antagonists, feeding behavior, Macaca mulatta 1025
 effects on food intake, rats 4329
 effects on food intake, reinforcement, rats 4375
 effects on hyperphagia, rats 2114
- Nantradiol hydrochloride,**
 effects on activity patterns, rats, dogs 2097

- Napaeozapus lasignis**,
activity patterns, weather effects on, Canada, Quebec 483.
habitat preferences, activity patterns, ecological distribution, forests 488.
- Narcotics**,
antagonists, drug effects, naltrexone, feeding behavior, *Macaca mulatta* 1025
drug effects, cerebrium serotonin levels, rats 944.
morphine, meperidine, morphine, codeine, discriminative stimulus ability, monkeys 1021.
- Nasalle larvatus**,
foraging behavior, aggregation behavior, food availability 3761.
- Naso lituratus**,
thermoregulatory behavior, temperature tolerance, Indo-Pacific region 1562.
- Nasutitermes corniger**,
pheromones, polyethnic behavior, foraging behavior, recruitment, defensive behavior 2278.
- Natica maculosa**,
predator-prey interactions, feeding behavior, food preferences, *Anadara granosa* 281.
- Natica tecta**,
feeding behavior, predation, food selection 275.
- Natural selection**,
adaptations, evolution, territoriality, interspecific relationships, aggression 504.
altruism, behavioral genetics, mathematical models 1063
behavioral genetics, altruism, models 3841.
behavioral genetics, speciation, reproductive behavior, isolation, mathematical models 1064.
breeding success, parental behavior, *Lycaon pictus* 2544.
evolutionary genetics, inbreeding, interspecific relationships 1580.
evolutionary genetics, interaction, inbreeding, interspecific relationships 1579.
evolutionary genetics, interaction, interspecific relationships 1578.
interspecific relationships, interaction, animal models, evolutionary genetics 1577.
mating behavior, Pteroptix, Afrocmex, *Xylocoris* 144.
parasitoid effects on hosts behavior 2811.
relationship, operant conditioning, reviews 2875
- Naufoeta clancra**,
dominance, social hierarchy, olfactory stimuli role 3482.
- Navigation behavior**,
foraging behavior, orientation, *Apis mellifera* 3006
geotaxis, magnetic fields, aquatic organisms, reviews 2990.
foraging behavior, magnetic fields, pigeons 4055.
homing behavior, magnetic fields, storms, pigeons 3018.
homing behavior, olfactory stimuli role, pigeons 4046
homing behavior, olfactory stimuli role, pigeons 4047.
magnetic compass, pigeons 1853
magnetic fields perception, *Thunus albacares* 4045
magnetic fields, polarity, pigeons 665
magnetic fields, routes, *Apodemus sylvaticus* 668.
migrations, radar, *Aves* 3020.
migrations, role, light polarization, *Coxidia* 1841.
orientation, behavior ecology, *Passerina cyanea* 419.
orientation, environmental factors, olfactory stimuli, *Columba* 1852.
orientation, homing behavior, olfaction, pigeons 3022.
orientation, homing behavior, urban environments, pigeons 4056
orientation, light, polarization *Apis mellifera* 4037.
orientation, olfaction, pigeons 4049
orientation, olfactory deprivation effects on, pigeons 4048
visual stimuli, orientation, swimming, *Aplysia brasiliana* 631.
- N,N-Dimethyltryptamine**,
effects on behavior, physiology, monkeys 1022.
hallucinogens, effects on schedule-induced behavior, rats 3298
- Neck**,
muscles, vision, coordination, eye, vestibular nystagmus, cats 3129.
pinching, cataplexy, survival adaptations, predators, mice 1575.
- Necrosis**,
arcuate nucleus, monosodium glutamate effects on, activity patterns, rats 4322.
- Nectar**,
host plants, foraging behavior optimization, *Lambertia formosa*, *Meliphagidae* 2692
reinforcement, effects on foraging behavior, *Bombus sandersoni*, *Vespula vulgaris* 1414.
reward, effects on feeding behavior, *Apis mellifera* 302.
secretion, effects on feeding behavior, *Brassica campestris*, *Apis* 303.
- Nectarinia venusta**,
vocalization behavior, food sources, flight, male 3413.
- Nectopseiche albida**,
flight activity, sexual reproduction, mating, oviposition, USA, Indiana 1282.
- Necturus maculosus**,
chemoreception, food organisms detection 4107.
thermoregulatory behavior, drug effects 3801.
- Nemobius sylvestris**,
migrations, locomotor activity, diel variations, light intensity, feeding behavior 636.
- Neonococephalus ensiger**,
sound production, aggregation behavior, movements, spatial distribution, males 3467.
- Neodipirifer**,
bouts, population density, host searching behavior, *Lophyproctus luteator* 2428.
- Neoditrema ransomei**,
feeding behavior, diets, food availability 1451.
- Neobesipridia dihydrochalcone**,
taste preferences, electrophysiological recording, rats, baboons 4093.
- Neotamias armatus**,
predatory behavior, food organisms 3858.
- Neotamias marginatus**,
predatory behavior, food organisms 3858.
- Neotamias vittatus**,
mating behavior, predatory behavior, food organisms 3858.
- Neomys mercedis**,
feeding behavior, predation, food preferences, body size 1394
food selection, zooplankton, USA, Washington, Washington L. 266.
- Neonates**,
activity patterns, methylmercury intrauterine exposure effects on, rats 4304.
activity patterns, quipazine effects on, rats 4341.
appetitive conditioning, odors, novelty, rats 3927.
- Neonates, (continued)**
auditory perception, localization 1928.
auditory stimuli, environmental effects, thyroxine, audiogenic seizures, mice 1923.
chlorpromazine, effects on learning behavior, rats 3235
cortex ablation, species behavior, hamsters 1959.
cortex (frontal) lesions, effects on activity patterns, rats 2058
discrimination learning, lesions, hippocampus, rats 4229.
heart rate, aversion learning, cats 3968.
hyperactivity, 6-hydroxydopamine, social environment, rats 3170.
locomotor activity, amphetamine isomers effects on, rats 4366
locomotor activity, chemical stimuli, males urine, mice 3593.
locomotor activity, paternal effects, mice 3883.
malnutrition, avoidance behavior, maturation, biochemical characteristics, brain, stress, cold stress 575.
perception, ontogeny, dogs 2919.
X-radiation, hippocampus, discrimination learning, rats 1955.
sexual behavior, luteal effects on, males, rats 3327.
spatial discrimination learning, rats 4004.
suckling behavior, infraorbital nerve, tactile stimuli, rats 3127.
suckling behavior, neurophysiology, rats 3177.
suckling behavior, olfactory stimuli role, pigs 3601.
suckling behavior, ontogeny, rats 3602.
suckling behavior, taste preferences, pigs 207.
suckling behavior, taste preferences, pigs 3604.
swimming behavior ontogeny, dopamine effects on, rats 526.
vocalization behavior, distress, chickens 3406.
- Neophobia**,
taste aversion, rats, guinea-pigs, gerbils 3961
testosterone effects on olfactory preferences, castration, hamsters 2184.
- Neoplectana carcopasae**,
host searching behavior, factors affecting, light, temperature 3776.
- Neothunus albacora**,
visual perception, color blindness 3053
- Neotoma floridana**,
food availability effects on maternal behavior, males offspring survival 486.
- Neotoma lepida lepida**,
mating behavior, copulation, olfactory discrimination 1337.
- Nephrotettix clincticeps**,
calling behavior, sound production, reproductive isolation 3379.
feeding behavior, comparative studies, strains, host plants 1439.
- Nephrotettix malayanus**,
calling behavior, sound production, reproductive isolation 3379.
- Nephrotettix nigropictus**,
calling behavior, sound production, reproductive isolation 3379.
- Nephrotettix virescens**,
calling behavior, sound production, reproductive isolation 3379.
- Nereis**,
food selection, predation, *Tadoma tadoma*, British Isles, Scotland 353.
predation, *Tadoma tadoma*, *Hydrobia* 352.
- Nerita polita**,
burrowing behavior, vertical migrations, tidal rhythm, diel variations 2770.
- Nerve transmission**,
cortex, skin, locomotion, arousal 812.
depression, mechanisms, reflexes (gill-withdrawal), habituation, *Aplysia californica* 4183.
hormones, memory, neurotransmitters 604
neurophysiology, cortex, EEG, arousal, resting behavior, cats 860.
- Nerves**,
analgesia mediation, shock, classical conditioning, opioids, rats 4160.
development, activity, escape behavior, ontogeny, *Eisenia foetida* 3137.
infraorbital nerve, suckling behavior, tactile stimuli, neonates, rats 3127.
lateral line denervation, social organization, schooling behavior, *Notemigonus crysoleucas* 2353.
motor activity control, locomotion, muscles, cat 696.
olfactory organs, histology, *Lampisilis* behavior, *Corbicula fluminea* 814.
spinal cord, ablation, effects on avoidance learning, rats 798.
- Nervous system**,
analysis, electrolocation, response, avoidance behavior, *Eigenmannia* 1596.
brain, biochemical composition, behavior, *Elasmobranchia* 830.
circadian rhythms, endogenous stimuli, oscillators, ions, cells, proteins, cellular mechanisms 743.
cortex, physiology, motor activity, hand, monkeys 875.
damage, motor activity, triethyltin bromide effects on, rats 4327.
effects on feeding behavior, *Lymanea stagnalis* 817.
effects on motor activity, *Carausius morosus* 683.
feeding behavior, *Hydra* 276.
physiology bioluminescence, *Chaetopterus* 813.
physiology, escape behavior, *Pecten ziczac* 816.
toxicity, dimethylmercury, effects on social behavior, rats 4328.
- Nesomimus parvulus**,
reproductive behavior, altruism, kin selection 2467.
- Nest building**,
Charadrius montanus, Canada 2462.
colonial characteristics, *Syneca surinama* 2783.
colonies, *Apicitermes lamani* 2404.
egg laying, *Cryptochirus* 138.
energetics, *Phalaenoptilus pustulosus* 3802.
foraging behavior, rhythms, *Henadus truncorum* 2789.
galeries, oviposition, *Dendroctonus frontalis* 1238.
habitat preferences, *Buteo lineatus* 3540.
habitat preferences, urban environment, *Aves* 174.
maternal behavior, pregnancy, mice 3600.
nest provisioning, defensive behavior, *Stictia maculata* 2429.
nest provisioning, predation, *Pompididae*, USA, Florida 1536.
nesting behavior, *Catharus fuscescens* 3547.
nesting behavior, incubation behavior, *Charadrius morinellus* 3553.
nesting behavior, larvae survival, *Onitis belial*, *Onitis ion* 2424.
nesting behavior, *Muscipora striata* 2481.
nesting behavior, *Polistes chinensis antennalis* 1533.
nesting behavior, queens, *Dolichovespula saxonica*, 2780.
nesting behavior, sex hormones, breeding success, *Streptopelia risoria* 3533.
Osmia marginata 1542.
pollution effects, oil, *Amphithoe valida* 1234.
population studies, seasonal variations, habitat, *Pan troglodytes*, Equatorial Guinea, Senegal 3867.

Nest building, (continued)

- queens, *Vespula maculifrons*, *Vespula germanica*, *Vespula vidua*, culture, laboratories 1262
social behavior, colonies, *Reticulitermes lucifugus* 2557
spawning behavior, territorial behavior, *Colisa chuna* 3527
Tanyoprymnus monodeloides, *Ammatopus icaroides*, nesting behavior, biology 1247
temperature effects, population density, female body size, emergence, effects on, *Dendrocyon frontalis* 1263
thermoregulatory behavior, *Trigona denoti* 1537
variability, *Crabro advena* 106

Nest building (non-reproductive),

- territorial, workers, *Apicoterms lamani* 2565

Nest provisioning,

- brood care, *Melospiza melodia* 2537
brood care, social organization, trophallaxis, environmental effects, *Tapinoma erraticum* 2559
division of labor, colonial characteristics, *Melipona favosa favosa* 2521
food organisms, nesting behavior, overwintering, *Lins argentata*, *Gryllus veletis* 1552
leaves, egg laying, *Passer domesticus* 3543
nest building, defensive behavior, *Sitta maculata* 2429
nest building, predation, *Pompididae*, USA, Florida 1536
nesting behavior, *Ecitemnus centralis* 2520
nesting behavior, predatory behavior, *Alysson conicus* 2518
parental behavior, feeding behavior, *Acceptor misus* 2576
variability, *Crabro advena* 106

Nesting,

- breeding, reproductive behavior, *Anthus pratensis*, Germany, Fed. Rep. 2469
breeding success, *Oreoscoptes montanus*, *Amphispiza belli*, Spizella breweri, USA, Idaho 2465
habitat preferences, diets, feeding behavior, *Falco chicquera*, Zambia 1565
migrations, imprinting, *Caretta caretta* 2906
overwintering behavior, communitates, *Microtus ochrogastus*, USA, Alaska 1570
parental behavior, brood care, *Copris lunaris* 2517
reproduction, colonies, *Pelecanus occidentalis occidentalis* 2531

Nesting behavior,

- activity patterns, diel variations, *Larus californicus*, *Larus delawarensis* 88
adaptations, *Palaeorchiza graiosa* 1260
age, early experience effects on, *Mus musculus* 3592
aggregation behavior, anti-predator behavior, *Limosa limosa* 3811
aggressive behavior, males, *Betta splendens* 1194
Amphispiza maritima, sympatric populations activity patterns effects on, *Oryzomys palustris* 420
breeding success, artificial substrates effects on, *Corvus monedula* 2460
breeding success, *Cephus grylle* 1304
breeding success, feeding behavior, forests, *Parus major minor*, Japan 1308
breeding success, *Zenaidura macroura* 1333
brood care, colonial characteristics, predation effects on, *Lepomis macrochirus* 2453
brood care, paternal behavior, *Gasterosteus aculeatus* 3584
brood rearing, *Chaetura pelagica* 2540
burrowing behavior, sexual reproduction, *Geositta peruviana*, Peru 3535
burrows, visual stimuli, *Tridentiger obscurus* 2835
Charadrius montanus, Canada 2462
coexistence, *Ardea herodias*, *Phalacrocorax auritus*, USA, Montana 2461
colonial characteristics, activity patterns, *Vespula consobrina* 2564
colonial characteristics, evolution, *Megachile rubi*, *Megachile texana* 2420
colonial characteristics, life history, *Bembix myosotis* 2519
colonial characteristics, movements, *Tapinoma sessile*, *Formica subsericea* 2436
colonial characteristics, workers, *Polistes chinensis antennalis* 1532
colonies, breeding success, competition, *Ardeidae*, France, Camargue 1306
colonies, site selection, flight activity, *Vespula consobrina* 3610
courtship, *Crocodylus johnstoni* 2446
Diadasma afflicta, USA, Texas 3519
diurnal variations, *Caretta caretta*, USA, Florida Coast 3523
division of labor, colonial characteristics, *Melipona favosa favosa* 2521
ecology, feeding behavior, ontogeny, external stimuli, juveniles, *Alcidae* 1600
egg production, sexual reproduction, *Philaete canadica*, USSR 3537
environmental effects, *Maleciemus terrapin*, USA, Florida 147
feeding behavior, *Acceptor stratus* 2530
feeding, colonial characteristics, *Gelochelidon nilotica* 3810
foraging behavior, *Agapostemon virens* 1535
grooming, water immersion effects on, rats 3364
habitat, ecological distribution, *Miscophus* 2412
habitat, oviposition, *Lyroda subita* 2416
habitat preferences, colonies, breeding success, *Rynchops niger*, USA, New Jersey, Barnegat Bay 2464

- habitat preferences, *Columba palumbus*, *Milvus ruginosus* 2529
habitat preferences, feeding behavior, reproductive behavior, breeding success, *Toxostoma curvirostre*, *Toxostoma longirostre* 168
habitat preferences, mating behavior, *Dumetella carolinensis* 1310
habitat preferences, *Motacilla cinerea* 2468
habitat selection, environmental factors, colonies, *Larus domnicanus*, South Africa 1302

- habitat selection, vegetation, wind, *Larus argentatus* 2466
home range, *Marmota menzbieri*, USSR 3823
homing behavior, orientation, *Hirundo rustica* 4059
interspecific relationships, defensive behavior, predatory behavior, *Crocodylus acutus*, *Iguana iguana* 3859

- Jabiru myiacta* 2473

- lactation, *Microtus pennsylvanicus*, USA, New York 2504

- life history, *Copris lunaris* 1289

- males, *Oxybelus sericeus* 1543

- maternal behavior, unbreding effects on, mice 1354

- maternal behavior, progesterone effects on, genetic factors, mice 3848

- mating behavior, parental behavior, *Eurytemnus* 3494

- mating behavior, parental behavior, reproductive strategy, *Pachodynerus nasidens* 2425

- mating behavior, territorial behavior, *Agelaius phoeniceus* 1311

- migrations, early experience effects on, *Fringilla coelebs* 3874

- monitoring methodology, electronic equipment, Aves 2198

- motor activity, wings, juveniles, *Coragyps atratus*, Panama 2896

- nest building, breeding success, sex hormones, *Sireptopelia risoria* 3533

- nest building, *Catharus fuscescens* 3547

- nest building, incubation behavior, *Charadrius monelli* 3553

- nest building, larvae survival, *Onitis belii*, *Onitis ion* 2424

Nesting behavior, (continued)

- nest building, *Muscicapa striata* 2481
nest building, nest provisioning, defensive behavior, *Sitta maculata* 2429
nest building, *Polistes chinensis antennalis* 1533
nest building, queens, *Dolichovespula saxonica* 2780
nest provisioning, *Ecitemnus centralis* 2520
nest provisioning, predatory behavior, *Alysson conicus* 2518
nests, habitat preferences, mice 3567
nests morphology, *Agapostemon* 2437
olfactory preferences, lemon odors, rats 4117
orientation, *Melanerpes uropygialis*, USA, Arizona 2845
overwintering, *Lins argentata* 1552
parental behavior, interspecific relationships, *Oenanthe picata*, *Petronia* 3587
parental behavior, males, *Icthyophaga exilis* 2534
parental behavior, *Oceanodroma furcata*, USA, Alaska, Barren Is. 2527
predation, *Pompididae*, USA, Florida 1536
reproductive behavior, breeding success, *Lagopus lagopus lagopus* 2457
reproductive behavior, egg laying, *Accipiter* 166
reproductive behavior, male guarding, *Pica pica* 2476
reproductive behavior, parental behavior, *Ficedula zanthopygia* 2458
reproductive behavior, salt marshes, *Catoprophorus semipalmatus*, USA, Virginia Coast 2573
site location, *Artemisia*, vertical distribution, *Oreoscoptes montanus*, *Amphispiza belli*, Spizella breweri 1305
site selection, environmental factors, comparative studies, *Buteo platypterus*, *Buteo lineatus*, *Buteo jamaicensis*, *Accipiter cooperii*, USA, Appalachian Mts. 474
site selection, habitat utilization, geographical distribution, *Vulpes vulpes*, Germany, Fed. Rep., Saarbrücken 3825
site selection, social interactions, *Bembix pruinosa* 3791
social behavior, colonial characteristics, *Xylocopa pubescens* 2568
social behavior, copulation, vocalization behavior, *Himantopus himantopus* 2898
spatial distribution, intraspecific relationships, *Bembix pruinosa* 2795
Tanyoprymnus monodeloides, *Ammatopus icaroides*, biology, nest building 1247
territorial behavior, *Agelaius phoeniceus*, USA, Minnesota 2474
territorial behavior, breeding success, colonial characteristics, *Larus marinus* 3585
territorial behavior, *Philanthus barbatus* 3611
usurpation, burrows, *Crabro monticola* 3522
variability, *Crabro advena* 106
visual discrimination, threatening behavior, man, *Larus argentatus*, *Larus marinus* 3054
vocalization behavior, song, *Merops apiaster* 2304

Nests,

- brood care, oral manipulation, eggs, hatching, *Alligator mississippiensis* 3583
colonial characteristics, defense mechanisms, sound production (biological), *Synoea virginica* 1554
communication, social behavior, alarm behavior, defensive behavior, *Synoea surinama* 2254
copulation burrows, territorial behavior, body size, males, *Ocyopod ceratophthalmus* 2383
foraging behavior, social behavior, *Dorylnae* 2890
habitat preferences, feeding behavior, song, *Chenoramphus grayi*, New Guinea 1566
habitat preferences, mice 3567
home range, winter, social interactions, interclan pressure, *Picoides borealis* 1222
incompatibility, recognition pheromones, colonial characteristics, *Pseudomymex ferruginea* 3380
limiting factors, habitat preferences, *Apis mellifera* 57
mate selection, territorial behavior, breeding success, courtship interference, *Gasterosteus aculeatus* 3528
morphology, nesting behavior, *Agapostemon* 2437
nest building, *Osmia marginata* 1542
odors, olfactory perception, ontogeny, *Microtus pinetorum*, *Peromyscus leucopus*, *Mus musculus* 3876
orientation, feeding experience, *Parusvepa pinnatus* 2963
parasites, hosts coevolution, *Cuculus canorus*, *Phoenicurus phoenicurus* 3814
parasitism, egg laying, drought effects on, interspecific relationships, *Aythya americana*, Canada, Alberta 1299
resource utilization, sympatric populations, *Leptomymex* 1549
site selection, environmental factors, solar radiation, *Vireo gilvus*, USA, Arizona 2472
site selection, *Pandion haliaetus*, USA, Wyoming, Yellowstone Park 2844
Sterna hirsuta, egg laying, *Molothrus ater* 3545
structure, thermoregulatory behavior, *Trigona denoti* 1537
territorial behavior, nesting behavior, males, *Oxybelus sericeus* 1543

Neurochemistry,

- activity patterns, drugs, 5-hydroxytryptamine, catecholamines, release factors, rats 3178
activity patterns, 5-hydroxytryptamine release factors, monoamine oxidase inhibitors, L-DOPA, rats 3145
apomorphine, dopamine, 5-hydroxytryptamine, activity patterns, rats 3271
brain, behavior, reviews 4181
brain, food intake, triethyltin effects on, rats 4315
catecholamine, schedule-induced behavior, operant conditioning, amygdala, caudate putamen, hypothalamus, *Rattus rattus* 841
drugs interaction, 6-fluorotryptophan effects on sleep and wakefulness, rats 3269
maze learning, spatial discrimination learning, age effects, *Rattus rattus* 845
monosodium L-glutamate, feeding behavior, mice 3297
serotonin, predation, aggressive behavior, mice killing, inducers, rats 865

Neuroendocrine system,

- feeding behavior, confereces 4498
hormones, behavior modulation, copulation, vocalization behavior, reviews 4397
mating behavior, copulation, sex differences, rats 3576
prolactin effects on grooming, rats 2179

Neuroleptics,

- chronic effects, stereotyped behavior, rats 3258
drug effects, grooming, dopamine, chemoreceptors, mice 856
effects on autoshaping, brain stimulation, rats 956
effects on grooming, novelty, rats 3291
effects on stereotyped behavior, gnawing, mice 952

Neurons,

- acetylcholine, development, scopalamine effects on avoidance behavior, locomotor activity, rats 4347

Neurons, (continued)

- activity, arousal, cats 4205.
 activity, measuring techniques, behavior, computer applications 4419.
 adaptations, classical conditioning, learning, models 1971.
 anatomy, genetic factors, avoidance learning performance, mice 1587.
 auditory perception, conspecifics vocalization behavior, seasonal variations, *Alytes obstetricans* 3070.
 cerebellum, electrophysiological recording, grasping, monkeys 879.
 chemoreceptors, blocking, propranolol, effects on, sleep (paradoxical), rats 771.
 chemoreceptors, taste perception, *Cyprinus* 924.
 colliculus, anatomy, mice 789.
 cortex, activity, operant conditioning, *Saimiri* 4217.
 cortex (auditory), midbrain, auditory stimuli, analytical techniques, *Rana temporaria* 732.
 cortex (inferotemporal), response, color visual stimuli effects on, monkeys 728.
 cortex (occipital), anatomy, environmental conditions, enrichment, rats 3154.
 cortex (prefrontal), activity, visual perception, go/no-go discrimination learning, monkeys 4210.
 cortex (visual), neurophysiology, visual stimuli, appetitive behavior, cats, rabbits 2008.
 cortex (visual), visual discrimination, *Aotus trivirgatus* 1896.
 'deities' neurons, activity, walking, coordination, limbs, cats 3046.
 depolarization, lateral geniculate nucleus, sleep (paradoxical), rats 1992.
 dopamine, degeneration, drug effects, cytidine diphosphate choline, locomotor activity, rats 1007.
 dopamine, substantia nigra, role, food consumption, drug effects, rats 1988.
 electrical properties, motor activity, muscles, *Peromyscus meles* 826.
 electrical stimulation, control, flashing, males, *Photuris versicolor* 22.
 electrical stimulation, effects on mechanoreceptors, paw movements, *Hirudo medicinalis*, *Macrodellia decora* 4184.
 electrical stimulation, locomotor activity, *Testudinea* 915.
 electrophysiological recording, tegmentum, hypothalamus, self-stimulation, rats 1157.
 enucleation, orientation, development, cortex (visual), juveniles, cats 861.
 escape behavior, motor activity, neurophysiology, *Astascidae* 3134.
 feeding behavior, amygdala, role, electrophysiological recording, monkeys 2009.
 giant axons, tails, escape behavior, *Astascidae* 824.
 gustatory stimuli, sensitivity, solitary tract nucleus, taste perception, hamsters 4120.
 hippocampus, anatomy, correlation, avoidance behavior, genetic relationship, mice, rats 802.
 hippocampus, classical conditioning effects on, rats 868.
 hippocampus, depletion, spatial discrimination learning, avoidance learning, rats 3151.
 5-hydroxytryptamine receptors, hallucinogens effects on appetitive conditioning, rats 4360.
 hypothalamus, electrophysiological recording, arousal, rats, rabbits 3167.
 hypothalamus, mediation, biting behavior, cats 4197.
 Mauthner cell action potential, electrophysiological recording, *Carassius auratus* 1914.
 neurons, yawning behavior, hormones, drug effects, physostigmine, pilocarpine, rats 848.
 memory, learning behavior, *Aplysia californica* 2984.
 morphogenesis, crowding effects on, juveniles, *Hemichromis bimaculatus* 3142.
 neurophysiology, auditory perception, rabbits 3171.
 neurophysiology, visual perception, movements, *Musca domestica* 4076.
 norendrenaline, role, avoidance learning, rats 1990.
 ocelli, visual perception, effects on orientation, *Schistocerca americana gregaria* 711.
 optic nerve, correlation, visual stimuli response, *Rana nigromaculata* 714.
 orientation, gravity sensitivity, *Gryllus* 640.
 physiology, avoidance behavior, learning behavior, *Carcinus maenas* 815.
 physiology, visual perception, *Rana esculenta* 828.
 polarization, locomotion effects on, cats 844.
 reflexes (gill withdrawal), *Aplysia californica* 822.
 reflexes (gill withdrawal), *Aplysia californica* 822.
 reflexes (gill withdrawal), *Aplysia californica* 821.
 responsiveness, food organisms, *Bufo bufo* 1978.
 responsiveness, sleep and wakefulness, development, rats 775.
 sensitization, reflexes (gill withdrawal), *Aplysia californica* 820.
 striatal dopamine, environmental effects, lead, ontogeny, rats 1624.
 substantia nigra, sensitivity, neurotransmitters, lesions, striate cortex, rats 3157.
 substantia nigra, tegmentum intracranial, brain 2010.
 tactile stimuli, escape behavior, *Pulmonata* 3136.
 vagal cardiac neuron, heart rate, cardiac conditioning, neurophysiology, visual evoked response, pigeons 1981.
 visual evoked response, attention, selectivity 1972.
 visual perception, visual discrimination, *Musca domestica* 827.
- Neuropeptides**
 neurotensin, bombesin, β -endorphin, effects on avoidance behavior, rats 4191.
- Neurophysiology**
 activity patterns, electrophysiological recording, methodology 810.
 aggression, acetylcholine, choline, brain, mice 3162.
 aggressive behavior, brain, hypothalamus, rats 851.
 agonistic behavior, adaptiveness 52.
 auditory perception, rabbits 3171.
 axons, coordination, motor activity, behavior patterns, *Homarus americanus* 3135.
 biochemistry, learning behavior, memory 3115.
 bioluminescence, visual communication, courtship, *Photuris lucifera* 2274.
 brain ablation, cortex, tactile perception, discrimination learning 598.
 brain (arousal), EEG, air ionization, rats 864.
 brain, auditory stimuli, electrical stimulation, cats 731.
 brain, EEG, sleep, arousal, air ionization, rats 863.
 brain, inferior colliculus destruction, echolocation, auditory perception, *Rhinolophus ferrumequinum* 669.
 brain, memory, reviews, *Mammalia* 4026.
 brain, motor activity, head, lesions, rats 1984.
 central nervous system, benzodiazepines receptors, emotional behavior, rats 4209.
 circadian rhythms, pineal organ, *Pisces* 3099.
 classical conditioning, confusions 2250.
 colliculus, auditory stimuli, conditioned response, rats 853.
 conditioned response, locomotor activity, globus pallidus, striate cortex, rabbits 3172.
 cortex (cingulate) EEG, reversal learning, rabbits 3161.
 cortex, conditioned response, EEG, dogs 858

Neurophysiology, (continued)

- cortex, EEG, epilepsy, focal spikes, rats 854.
 cortex, nerve transmission, EEG: arousal, resting behavior, cats 860.
 cortex (visual), saccadic eye movements, visual discrimination learning, monkeys 4092.
 drugs, apomorphine, conditioning, avoidance behavior, memory, amnesia, rats 981.
 drugs, measuring techniques, intracranial injections, pharmacology, *Macaca mulatta* 1096.
 electrical properties, appendages, physical activity, *Echinus sculentus* 3133.
 electrolocation, electric perception, *Aptereronotus albifrons* 3072.
 escape behavior, motor activity, neurons, *Astascidae* 3134.
 escape behavior, ontogeny, *Eisenia foetida* 3137.
 escape behavior, walking, *Periplaneta americana* 1977.
 heart rate, vagal cardiac neuron, cardiac conditioning, neurophysiology, visual evoked response, pigeons 1981.
 hippocampus, avoidance learning, conditioned response, rabbits 572.
 hippocampus, EEG, avoidance behavior, cats 2003.
 hippocampus, epilepsy, activity patterns, rats 3163.
 hippocampus, theta rhythms, rats 3150.
 hypothalamus, avoidance behavior, emotional behavior, conditioned response, rats 3160.
 intracranial self-stimulation, age effects on, amphetamine, rats 4280.
 intracranial self-stimulation, drugs, rats 4273.
 intracranial self-stimulation, reviews 4267.
 jumping, shock, foot shock, clonidine, apomorphine, phenoxybenzamine, pimozide, rats 852.
 locomotion, mechanical stimuli, cats 3148.
 mechanoreceptors, vibratory stimuli, *Locusta migratoria*, *Decticus verrucivorus* 1909.
 memory, learning behavior, *Aplysia californica* 2984.
 molting behavior, abdomen, rhythms, *Schistocerca* 1934.
 motor activity, benzene, d-amphetamine, toxicity testing, rats 859.
 motor activity, brain, vocalization behavior, song, *Serinus canarius* 811.
 motor activity, dentate nucleus, synergism, baboons 871.
 motor activity, stereotyped behavior, *Aplysia californica* 4182.
 naloxone effects on, water intake, food intake, rats 1011.
 naloxone effects on hyperphagia, rats 2114.
 neurons, conditioning, cats 809.
 neurons, cortex (visual), visual stimuli, appetitive behavior, cats, rabbits 2008.
 neurons, visual perception, movements, *Musca domestica* 4076.
 operant response association, heart rate, blood pressure, *Saimiri* 4216.
 optic nerve, locomotor activity, circadian rhythms, *Bursatella leachi* plei 3089.
 pheromone emission, sex pheromone, *Lymantria dispar* 3138.
 Purkinje cells, cerebellum, vermal zones, locomotion, cats 3168.
 responsiveness, hallucinogens effects on, rats 2164.
 responsiveness, hallucinogens effects on, rats 2169.
 septum, hippocampus, conditioning 3130.
 shock effects on, rats 2006.
 short term memory, role, d-amphetamine 1807.
 sound production, auditory communication, *Opsanus tau* 4187.
 stereotyped behavior, reviews, monkeys, man 4215.
 sucking behavior, neonates, rats 3177.
 swimming, embryos, *Xenopus laevis* 3139.
 tails, escape behavior, *Lumbricus terrestris* 1976.
 visual perception, motion, *Phormia terraenovae* 4077.
 visual perception, motor activity, ethology, niche position, *Rodentia* 1568.
 vocalization behavior, defensive behavior, predators, *Cynia tenera*, *Chiroptera* 2806.
- Neurotensin**
 effects on avoidance behavior, rats 4191.
- Neurotoxins**
 foot shock sensitivity, 5-hydroxytryptamine depletion, avoidance behavior, rats 884.
 stereotyped behavior, rats 948.
- Neurotransmission**
 cortex, epilepsy, operant conditioning, *Macaca mulatta* 803.
 drug effects, deanol, hemicholinium, behavior, rats 2163.
 epileptopsymptomatic immobility syndrome, catalepsy, catatonias, rats 2243.
- Neurotransmitters**
 aggressive behavior, cyclic AMP, mice, crickets 3176.
 apomorphine, chronic exposure, effects on, stereotyped behavior, locomotor activity, rats 849.
 apomorphine, dopamine, activity patterns, cats 3271.
 behavior function, noradrenaline, central nervous system, theories, reviews 1974.
 behavior sensitivity, intracranial chemical stimulation, 5-hydroxytryptophan, rats 792.
 binding, forebrain, circadian rhythms, sleep deprivation, rats 1942.
 brain, sleep and wakefulness, nucleotides levels, rats 770.
 catecholamine, schedule-induced behavior, amygdala, caudate putamen, hypothalamus, *Rattus rattus* 841.
 catecholamine, serotonin, biochemical characteristics, metabolism, delayed response, cats 866.
 chronic exposure, L-DOPA, benzerazide, drug effects, locomotor activity, mice 791.
 dopamine, substantia nigra, lesions, rotation, grafting, adrenal chromaffin cells, rats 896.
 effects on sleep (paradoxical), hippocampus EEG, theta rhythms, rats 1947.
 6-hydroxydopamine, hyperactivity, cortex (frontal), asymmetry, rats 800.
 insects, effects on *Mammalia* behavior 836.
 intracranial chemical stimulation, stereotyped behavior, mice 926.
 locomotor activity, drug effects, nucleus accumbens, rats 942.
 maze learning, spatial discrimination learning, age effects, *Rattus rattus* 845.
 nerve transmission, hormones, memory 604.
 neurons, substantia nigra, sensitivity, lesions, striate cortex, rats 3157.
 phenocyclidine behavior, dopamine, rats 1012.
 phenobarbital prenatal experience effects on, activity patterns, mice 1609.
 physiology, bioluminescence, *Chaetopterus* 813.
 receptors agonists, effects on sexual behavior, rats 2149.
 substance P, cerebrospinal fluid, mediation, stereotyped behavior, mice, rats 867.
 substance P, intracranial chemical stimulation, ventricles (cerebral), stereotyped behavior, thermoregulation, *Gallus domesticus* 834.
 tranlylcypromine, effects on, locomotor activity, stereotyped behavior, hyperactivity, reserpine, rats 1004.
 uptake, drug effects, nioxetine, fluoxetine, tonic immobility, chickens 936.

- Neotricinus gibbsi**,
burrowing behavior, vegetation patterns, habitat preferences, ecological distribution 487
- Neustophagia**,
feeding behavior, surface water particles, Podocnemidae 2660
- New records**,
cleptoparasitism, Araneae, Cericomyidae, USA, Florida 1415
feeding behavior, *Brachiana ramosa*, *Ostrinia nubilalis* 296
- Nezara viridula**,
auditory communication, song 3388
copulation time, adaptiveness, parasitism 1540
dispersal, nymphs, legumes, *Phaeodorus guildinii*, Brazil 438
reproductive behavior, copulation, spermatozoa 110
- Niche**,
carrying capacity, sheltering behavior, summer, intraspecific relationships, competition, *Senotax brachyurus* 2857
- Niche pattern**,
diets, foraging behavior, *Dicrurus hottentotus* 2712
food sources, foraging behavior, *Bombus terrestris*, *Bombus lapidarius* 2655
- Niche position**,
ecological evaluation, visual perception, motor activity, ethology, *Rodentia* 1568
- Nickel**,
pollution levels, avoidance behavior, *Salmo gairdneri* 3805
- Nicotine**,
drugs, schedule-induced behavior, monkeys 1030
effects on avoidance learning, rats 3272
effects on motor activity, rats 1037
effects on predatory behavior, *Putorius furo* 4178
intrauterine exposure, effects on exploratory behavior, discrimination learning, guinea-pigs 4305
intrauterine exposure, effects on locomotor activity, activity patterns, rats 3243
mecamylamine, operant conditioning, olfactory discrimination learning, rats 3995
withdrawal, drug tolerance, effects on behavior, rats 938
- Nicrophorus carolinus**,
foraging behavior, carrion location 2650
- Nictitating membrane response conditioning**,
CS (compound), rabbits 555
dorsolateral pons lesions effects on, rabbits 4233
inhibition, naloxone, rabbits 4353
intracranial chemical stimulation, scopalamine, hippocampus, septum, rabbits 838
latency, electrical stimulation, rabbits 3950
methodology, classical conditioning, pigeons 2197
motivation, associative learning, classical conditioning, rabbits 1762
retinofornal body lesions effects on, rabbits 4228
role, cerebellum, rabbits 1993
second-order schedule, second-order conditioning, serial compound conditioning, reinforcement, variable interval schedule, rabbits 1702
- Night**,
activity, equipment, cameras, *Insecta* 3335
anti-predator behavior, sheltering behavior, *Scarus taeniopterus*, West Indies, Barbados Coast 3806
feeding behavior, artificial light, *Archilochus colubris* 2719
flight activity, aggregation behavior, convergence zones, atmospheric conditions, *Insecta* 3778
flight activity, surveys, *Lepidoptera*, USA, Colorado 1869
migrations, orientation, *Aves* 3019
spawning behavior, *Ophiuridrum pictum*, *Capillaster multiradiatus*, Bohadschia marmorata, Palau Is. Coast 3487
- Niliaparvata lugens**,
migrations, climatic conditions effects on 442
- Ninoxetide**,
drug effects, neurotransmitters, uptake, tonic immobility, chickens 936
- Nitrocellulose polychaeta**,
food preferences, feeding behavior, bacteria 3660
- N-Nitroso-N-ethylurea**,
intrauterine exposure, effects on locomotor activity, emotional behavior, ontogeny, rats 2914
- Noctua pronuba**,
orientation, magnetic fields, flight 4036
- Noemacheilus barbatulus**,
circadian rhythms, activity patterns 4136
- Noise**,
early experience, effects on activity patterns, rats 3878
echolocation, bioacoustics, *Tursiops truncatus* 3085
effects on food consumption, rats, rabbits 1924
intensity, effects on discrimination learning, rats 722
- Nomada articulata**,
cleptoparasitism, effects on nesting behavior, foraging behavior, *Agapostemon vivescens* 1535
- Nomia melanderi**,
interference competition, soil-dropping behavior, *Tetramorium caespitum* 2805
- Noninvasive**,
drug self-administration, rats, pharmacology, drug abuse man 2095
- 19-Nor-17 α -ethynyltestosterone**,
effects on aggressive behavior, females, mice 2334
- Noradrenaline**,
avoidance learning, locus coeruleus, ablation, rats 571
behavior function, central nervous system, theories, reviews 1974
brain, blood vessels mechanoreceptors effects on, rats 1985
depletion, hypothalamus, maternal behavior, rats 4193
effects on activity patterns, rats 4200
effects on conspecific odors preferences, males, rats 929
effects on copulation, rats 908
effects on emotional behavior, shock, rats 1020
levels, 6-hydroxydopamine, brain effects on, motor activity, monkeys 3179
neurons, role, avoidance learning, rats 1990
plasma levels, fear conditioning effects on, monkeys 2231
plasma levels, stress, shock effects on, rats 3666
role, visual discrimination learning, *Callithrix jacchus* 4012
stress effects on, escape behavior, mice 2237
sympathetic nervous system, stress, selection, rats 3147
- Norepinephrine**,
feeding behavior, diets palatability effects on, rats 1511
feeding, intracranial chemical stimulation, morphine, hypothalamus
- Norepinephrine, (continued)**
(ventromedial), rats 2064
food intake, temperature effects, body temperature, rats 1001
pons, physical activity, drug effects, morphine, amphetamine, rats 2142
- Norlevomehadiyl acetate**,
intrauterine exposure, effects on open-field behavior, chickens 4302
- Notriptyline**,
effects on learned helplessness, stress, mice 4288
- Nose**,
hair movements, tongue movements, sleep (paradoxical), anophthalmic mice 1948
- Notemigonus crysoleucas**,
schooling behavior, lateral line denervation, effects on social organization 2353
- Notiphilus biguttatus**,
feeding behavior 312
predatory behavior, humidity, chemical stimuli, prey, capture 2640
- Notonecta**,
feeding behavior, predation, resource partitioning, habitat selection, British Isles 1436
predatory behavior, locomotion efficiency 3038
- Notonecta alauca**,
tactile discrimination, sex, interspecific relationships 105
- Notonecta hoffmanni**,
foraging behavior, anti-predator behavior, intraspecific relationships, freshwater environments 3779
- Notophthalmus viridescens**,
bombling behavior, territorial behavior, ponds 2347
secretions, avoidance behavior, predators, *Dytiscus verticalis* 1716
- Notopteris chitrala**,
auditory perception, auditory stimuli 3073
- Notropis callistaenia**,
spawning, mating behavior 2454
- Notropis cornutus**,
behavioral genetics, schooling behavior, genotypes, community composition, heterogeneity 1583
- Notropis lutrensis**,
temperature preferences, thermoregulatory behavior 2827
- Novelty**,
approach behavior, avoidance behavior, *Alecton chukar*, *Chrysolophus pictus*, *Phasianus colchicus* 2205
avoidance behavior, amygdala lesions effects on, mice 4240
context dependency, taste aversion learning, rats 2956
exploratory behavior, age effects on, mice 3363
exploratory behavior, genetic factors, albino, mice 2886
exploratory behavior, hybrids, inbreeding, mice 4465
exploratory behavior, olfactory bulb lesions effects on, mice 4224
exploratory behavior, scopalamine effects on, rats 3290
fear, cannabidiol, diazepam effects on, rats 4368
fear, pentobarbital effects on, rats 2128
food intake, naloxone effects on, insulin, rats 4394
food organisms, feeding behavior, *Mimus polyglottos* 2720
food preferences, benzodiazepine effects on, γ -aminobutyric acid role, rats 3292
food preferences, chlordiazepoxide effects on, rats 3283
food preferences, chlordiazepoxide effects on, rats 3461
learning behavior, memory, age effects, mice 1825
neuroleptics, antidepressants, effects on grooming, rats 3291
odors, appetitive conditioning, neonates, rats 3927
reinforcement, spontaneous alternation, rats 4466
stimuli, effects on corticosterone plasma levels, rats 4167
taste aversion learning, rats 2952
- Nucifraga columbiana**,
feeding behavior, seeds, *Pinus* 369
foraging behavior, seeds 2726
- Nucleotides**,
chemotaxis, larvae, *Culex pipiens quinquefasciatus* 4101
levels, brain, sleep and wakefulness, rats 770
- Nucleus accumbens**,
drug effects, chronic administration, amphetamine, locomotor activity, tolerance, rats 985
drug effects, neurotransmitters, locomotor activity, rats 942
intracranial chemical stimulation, dopamine, locomotor activity, catalepsy, *Saimiri sciureus* 2011
lesions, effects on muncide, gentling, rats 4247
oxotremorine, effects on locomotor activity, rats 4198
- Nucula annulata**,
organic matter ingestion, sediments, estimation methodology, detritus feeders 2613
- Nursing**,
effects on hormones, *Mesocricetus auratus* 1349
maternal behavior, malnutrition effects on, heritability, rats 206
maternal behavior, malnutrition effects on, rats 205
maternal behavior, suckling behavior, *Rangifer tarandus pearyi* 3598
reproductive behavior, fecundity, fertility, *Meriones unguiculatus* 1330
role, tactile stimuli, juveniles, rats 1352
- Nutrient deficiency**,
iron, coprophagy, rats 3745
iron, early experience, effects on food intake, taste aversion learning, rats 519
iron, effects on thermoregulatory behavior, motor activity, rats 521
lordosis behavior, rats 3566
maternal effects, maze learning, rats 522
S-100 protein, correlation, avoidance learning, memory, rats 4158
sensitivity, amygdala, cortex lesions effects on, rats 2027
thiamine, folate acid, pharmacology, avoidance learning, rats 573
thiamine, recovery, taste aversion learning, toxicosis, atropine, lithium, rats 1727
thiamine, taste aversion learning, associative learning, rats 1756
zinc, effects on associative learning, rats 3882
zinc, effects on open-field behavior, age, rats 3886
- Nutrient requirements**,
diets, food preferences, chickens, laying hens 1466
effects on feeding behavior, *Phytoseiulus persimilis*, *Amblyseus degenerans* 284
feeding behavior, soil, *Gopherus agassizii* 3682
- Nutrients**,
effects on feeding behavior, colonial characteristics, *Solenopsis invicta* 1411

Nutrients, (continued)

- food intake, effects on satiety, regulation, rats 395
- food intake regulation 3653
- food preferences, feeding behavior, drug effects, naloxone, rats 983
- phosphate, effects on food intake regulation, rats 1488
- Nutrition,**
 - diets, lesions, hypothalamus (dorsomedial), juveniles, rats 892
 - effects on maturation, reproductive behavior, growth rate, *Papio cynocephalus* 2923
 - food preferences, grazing, diets, cattle 1499.
- Nutritional status,**
 - food availability, feeding, offspring, secondary nestlings, males, parental behavior, *Dolichonyx oryzivorus* 1346
- Nuts,**
 - food preferences, foraging behavior, *Sciurus carolinensis* 2745.
- Nyctalus noctula,**
 - communication, social interactions 48
- Nyctanassa violacea,**
 - feeding behavior, food organisms, Crustacea 3727
- Nycticorax nycticorax,**
 - nesting behavior, colonies, breeding success, competition, France, Camargue 1306
- Nymphae,**
 - feeding, mother-offspring interactions, *Perisphaerus* 1343.
- Nyctea lucifugus lucifugus,**
 - hibernation, activity patterns, hormones 2176.
- Nystagmus,**
 - brain lesions, monkeys 726.
 - visual evoked response, head movements, *Tenebrio molitor* 705

Obesity,

- feeding behavior, food intake, hormones, mice 385.
- feeding behavior, food intake, rats 3752.
- feeding behavior, sucking behavior, mice 1502
- food intake, hypothalamus lesions effects on, rats 4242
- food intake regulation, hypothalamus, rats 4189
- genetic control, food intake effects on activity patterns, rats 4488.
- hyperphagia, hypothalamus lesions, insulin, rats 4155.
- hypothalamus (medial) lesions effects on, social environment role, rats 2028
- taste aversion learning, mice 1767
- taste preferences, feeding behavior, dogs, cats 1917.

Object detection,

- discrimination learning, mechanical stimuli, *Anoplocephalus jordanii* 3076.
- mechanical stimuli, lateral line, *Anoplocephalus jordanii* 3079.
- tactile perception, *Galemys pyrenaicus* 3087

Object permanence,

- visual perception, cats 4090.
- Observation methods,**
 - behavior, automated methods 3334
 - effects on escape behavior, reefs, Pisces 2832.
 - electronic equipment, spectral analysis, drug effects, amphetamines, rats 2204
 - sampling, copulation, *Macaca arctoides* 4438

Observational learning,

- models effects on, mice 599.
- placitophagia, maternal behavior, rats 1329.

Observing response,

- conditioned reinforcement, chlorpromazine effects on, pigeons 3300

Oceanodroma furcata,

- parental behavior, nesting behavior, USA, Alaska, Barren Is. 2527

Oceanodroma leucorhoa,

- vocalization behavior, auditory communication 3401

Ocelli,

- neurons, visual perception, effects on orientation, *Schistocerca americana* gregaria 711.
- photoreceptors, phototaxis, *Drosophila* 1884.

Dichotyles pricei,

- home range, territorial behavior, movements 3830

Ochrotomys nuttalli,

- social facilitation, aggregation behavior, energetics, food availability 3820.

Ocotocorallia,

- feeding behavior, filter feeders, 30 species 3667

Ocotopus bimaculatus,

- sheltering behavior, habitat utilization, USA, California Coast 2774

Ocotopus joubini,

- interspecific relationships, competitive behavior, chemical communication, *Gonodactylus bredini* 425

Ocotopus vulgaris,

- behavioral responses, color, discrimination learning 3.
- distribution, reproduction, behavior, Atlantic Ocean 81
- feeding behavior, mating behavior, South Africa Coast 102

Oryzopsis ceratophthalmus,

- territorial behavior, copulation burrows, body size, males 2383

Oryzopsis quadrata,

- feeding behavior, deposits feeding, efficiency 280

Oddity discrimination learning,

- transfer learning, concept learning, pigeons 4013

Odobenus,

- locomotion, aquatic environment, terrestrial environments, walking, swimming 1875

Odocoileus hemionus,

- food organisms, feeding behavior, winter, *Canis lupus pambasileus* 404
- food preferences, feeding behavior, experience effects on 3737
- food preferences, food sources 412.
- habitat preferences, vegetation patterns 2868
- interspecific relationships, predatory behavior, *Canis latrans*, 3738
- juveniles, home range, predator-prey interactions, *Canis latrans*, USA, Colorado 1224.
- movements, locomotion, roads effects on 490

Odocoileus virginianus,

- activity patterns, diurnal variations, seasonal variations, mathematical models 2861
- energy budget, milk reduction effects on play, grazing, juveniles 2232.
- migrations, home range, social organization, USA, Minnesota 3626
- territorial behavior, food sources, wildlife management 2488

Odocoileus virginianus borealis,

- social rank, age effects, sex differences, body weight 95.

Odontia,

- avoidance behavior, predation, environmental conditions 454
- flight activity orientation, ocelli effects on 633
- flight activity, periodicity, seasonal variations 2786.

Odontosyllis enopla,

- bioluminescence, visual perception, spawning behavior 703.

Odontotermes distans,

- swarming behavior 219

Odontotermes wailoniensis,

- foraging behavior, annual variations, environmental factors, India 2633.

Odor,

- sexual behavior, courtship, androgen, blood levels, urination, *Rangifer tarandus* 190

Odor aversion learning,

- olfactory bulb response effects on, rats 1986.

Odor thresholds,

- chemical stimuli, chemoreceptors, trigeminal nerve, rats 4116.

Odor perception, chemical stimuli,

- rats 4111.

Odors,

- attractancy, hamsters 1922
- chemical stimuli, exploratory behavior, tongue flicking, *Crotalus* 4106.
- chemical stimuli, reinforcement, alternation learning, rats 3948.
- conspecifics odors, conditioning, rats 4122.
- conspecifics, reinforcement, conditioning, rats 4122.
- cues, reinforcement, trials, activity patterns, locomotor activity, rats 1679.
- effects on feeding behavior ontogeny, rats 1516.
- effects on taste aversion learning, overshadowing, rats 3983
- host plants, orientation, *Psila rosae*, *Daucus carota* 4103.
- hosts, parasites olfaction, Hymenoptera, *Dendroctonus frontalis* 2263.
- lemon, olfactory preferences, nesting behavior, rats 4117.
- nests, olfactory perception, ontogeny, *Microtus pinetorum*, *Peromyscus leucopus*, *Mus musculus* 3876.
- novelty, appetitive conditioning, neonates, rats 3927.
- offspring, recognition, rearing, sheep 4451.
- olfactory bulb response, effects on odor aversion learning, rats 1986.
- olfactory discrimination, alternation learning, drug effects, naloxone, rats 2107.
- potentiation, overshadowing, color, *Apis mellifera* 2962.
- predators, *Blarina brevicauda*, avoidance behavior, *Microtus pennsylvanicus* anti-predator behavior 2858.
- prey, chemoreception, food preferences, feeding behavior, *Homarus americanus* 2609.
- prey, hunger effects on chemoreception, feeding behavior, *Crotalus viridis*, *Crotalus enyo* 2659.
- prey, learning behavior, *Bufo boreas*, Insecta 1449.
- recognition, olfactory discrimination, nest mates, *Lasioglossum zephyrum* 1951.
- response, sex differences, intraspecific relationships, *Meriones unguiculatus* 1175.
- strength, olfaction, sniffing effort 4100.

Oenanthe isabellina,

- mating behavior, sexual behavior, communication 3544.

Oenanthe isabellina,

- social behavior, territorial behavior, breeding 3622.

Oenanthe oenanthe,

- foraging behavior, feeding behavior, predators 1481.
- parental behavior, territorial behavior, food availability, British Isles, Wales 1347

Oenanthe picata,

- auditory communication, song, geographical variations 3411.
- nesting behavior, parental behavior, interspecific relationships, *Petronia* 3587

Offspring,

- infanticide, maternal behavior, sex hormones, rats 1351.
- males, survival, maternal behavior effects on, food availability, *Neotoma floridana* 486
- maternal behavior, tranquilizers, sheep 2211.
- maturation, parental behavior, *Larus argentatus*, USA, New Jersey, Barnegat Bay 197
- odors, recognition, rearing, sheep 4451
- parental behavior, males, toting, *Papio ursinus* 213.
- recognition, mother offspring interactions, sensory stimuli, horses 2548.
- secondary nestlings, parental behavior, feeding, nutritional status, food availability, *Dolichonyx oryzivorus* 1346.
- social rank, *Macaca mulatta* 3485
- vocalization behavior recognition, parental behavior, *Gymnorhinus cyanocephalus* 2302.

Oil,

- pollution effects, nest building, *Amphithoe valida* 1234.

Oil and gas industry,

- pipelines, effects on movements *Rangifer tarandus*, USA, Alaska 2864

Oil pollution,

- pollution effects, feeding behavior, *Oncorhynchus kisutch* 2673.
- sediments, feeding behavior, *Prothotaca staminea*, Cancer magister, USA, Washington Coast 2621

Oil spills,

- pollution effects, swimming behavior, *Oryzomys plausstris* 2855.

Olus,

- plant extracts, antifeedants, *Thuja plicata*, *Pissodes strobi*, *Altica ambiens* 2638.

Olea europaea,

- orchards, feeding behavior, foraging behavior, Aves 2731.

Olfaction,

- chemical stimuli, orientation, Pisces 3074.
- homing behavior, orientation, navigation behavior, pigeons 3022
- homing behavior, orientation, pigeons 4049.
- host searching behavior, feeding behavior, *Glossina* 318.
- hosts odors, parasites, Hymenoptera, *Dendroctonus frontalis* 2263.
- migrations, *Tadania brasiliensis mexicana* 4061.
- odors strength, sniffing effort 4100
- orientation, homing behavior, environmental effects, pigeons 660
- orientation, host plants odors, *Psila rosae*, *Daucus carota* 4103.
- pheromones enantiomers, electrophysiological recording, antennal sensilla, *Dendroctonus frontalis* 2261
- role, sexual reproduction, *Vertebrata* 1913
- sexual behavior, sex pheromone, *Macaca mulatta* 3440.

Olfaction, (continued)

- sexual behavior, sexual maturity, *Pseudohylesmus nebulosus* 1270
visual stimuli, host searching behavior, *Glossina* 319
- Olfactory bulb,**
ablation, brain enzymatic activity, aggressive behavior, drug effects, scopolamine, rats 1964
ablation, effects on activity patterns, rats 4225
ablation, effects on grazing, diets, sheep 4223
ablation effects on parental behavior, sex differences, rats 2026
ablation, mating behavior, patterns, sex hormones, rats 1328
ablation, shock, effects on aggression, sleep and wakefulness, rats 4222
ablation, taste aversion learning, antidepressants effects on, rats 3264
degeneration, olfactory stimuli effects on, rats 1919
EEG, olfactory stimuli conditioning, rabbits 4188
lesions, effects on aggressive behavior, mice 74
lesions, effects on exploratory behavior, mice 4224
lesions, effects on olfactory perception, sleep and wakefulness, rats 4222
lesions, muncide, irritability, open-field behavior, rats 3189
response, effects on odor aversion learning, rats 1986
- Olfactory communication,**
pheromones, aggressive behavior, reproductive behavior, *Sus scrofa* 3437
social behavior, castes, colonial characteristics, *Lasioglossum zephyrum* 2562
- Olfactory deprivation,**
effects on orientation, navigation behavior, pigeons 4048
feeding behavior, juveniles, rats 4110
- Olfactory discrimination,**
conspecific odors, *Microtus agrestis* 4113
copulation, *Neotoma lepida* 1337
naloxone, intrauterine exposure effects on, rats 3249
odors, alternation learning, drug effects, naloxone, rats 2107
odors, recognition, chemoreception, nest mates, *Lasioglossum zephyrum* 1951
olfactory perception, water chemistry, *Anguillidae* 3075
urine odors, methodology, gerbils 2203
- Olfactory discrimination learning,**
hypothalamus (dorsomedial), amygdala lesions effects on, rats 2045
operant conditioning, drugs, rats 3995
- Olfactory organs,**
ablation, mating behavior, estrous receptivity, females, rats 793
nerves, histology, *Lampisilus ventricosus*, *Corbicula fluminea* 814
- Olfactory perception,**
conspecifics, *Procyon canis* 4114
dehydration, water content, effects on, volatiles, chemotaxis, *Eucelatoria*, *Hibiscus esculentus* 637
effect on feeding behavior, rats 408
habituation, urine odors, rats 4112
mother-offspring interactions, recognition, *Rangifer tarandus tarandus* 3597
odor thresholds, chemical stimuli, rats 4111
olfactory bulb lesions effects on, sleep and wakefulness, rats 4222
olfactory discrimination, water chemistry, *Anguillidae* 3075
olfactory stimuli, orientation, *Phoxinus laevis* 4108
ontogeny, feeding, site selection, juveniles, rats 1625
ontogeny, odors, nests, *Microtus pinetorum*, *Peromyscus leucopus*, *Mus musculus* 3876
pheromones, electroantennograms, *Ostrinia nubilalis* 1904
pheromones, strains, effects on behavior, *Tropodroma granatum* 23
prey kairomones, *Amblyseius fallax*, *Phytoseiulus macropilis* 1901
sex pheromone, electroantennograms, *Spodoptera littoralis* 1903
social rank, conspecifics, *Lemmus trimucronatus* 1177
- Olfactory preferences,**
lemon odors, nesting behavior, rats 4117
testosterone effects on neophobia, castration, hamsters 2184
- Olfactory stimuli,**
conditioned response, unconditioned response, amnes effects on, brain, *Apis mellifera* 3117
conditioning, olfactory bulb EEG, rabbits 4188
effects on avoidance learning, olfactory bulb degeneration, rats 1919
effects, conspecific recognition, *Damuliscus dorsus dorsus* 3426
flight activity, orientation, chemoreception, atmospheric conditions, *Insecta* 2797
homing behavior, orientation, environmental factors, *Columba* 1852
host plants, effects on feeding behavior, *Dendroctonus frontalis*, *Pinus taeda* 1546
host plants, effects on phototaxis suppression, *Bombyx mori* 1910
host searching behavior, parasitoids, hosts, *Sitona hispidulus*, *Patasson lameerei* 3496
imprinting, aggressive behavior, males effects on, juveniles, rats 1202
olfactory perception, orientation, *Phoxinus laevis* 4108
pheromones, mandibular glands, *Myrmica* 2270
role, homing behavior, orientation, *Testudo hermanni* 4040
role, navigation behavior, homing behavior, pigeons 4046
role, parental behavior, *Streptopelia risoria* 2524
role, social behavior, dominance, *Nauphoeta cinerea* 3482
role, suckling behavior, neonates, pigs 3601
scent marking behavior, trail following behavior, maze learning, rats 4015
sexual behavior, larvae, *Rhinophrynus dorsalis* 3615
sexual behavior, lordosis behavior, males, rats 3555
suckling behavior, mother-offspring interactions, rabbits 3596
- Oligocottus maculosus,**
homing behavior, site effects on, homing behavior 465.
- Olois,**
predation, food organisms survival, body size, effects on, *Eleutherodactylus coqui* 287.
- Omission training,**
autoshaping, appetitive conditioning, rats 1681
autoshaping, learning behavior, tracking, rats 1706
multiple schedule, tracking, rats 1698
operant conditioning, reinforcement, rats 1691
- Oncidium varicellatum,**
grazing, trail following behavior 623.
- Oncophoms leucogaster,**
taste aversion learning, effects on predatory behavior suppression, food organisms movements 1764.
- Oncorhynchus,**
hydrocarbons, avoidance behavior, migrations 2824.

- Oncorhynchus gorbusha,**
circadian rhythms, swimming, activity patterns, photoperiods, juveniles 756
feeding behavior, juveniles, hunger effects on 339
juveniles, feeding behavior, food preferences, Alaska Coast 1457
spawning behavior, mating behavior 3531
- Oncorhynchus keta,**
juveniles, feeding behavior, food preferences, Alaska Coast 1457.
- Oncorhynchus kisutch,**
feeding behavior, diets, diurnal variations, periodicity 345
feeding behavior, periodicity, diets, diel variations 2669
juveniles, territorial behavior, food availability, Canada 1221
pollution effects, oil pollution, feeding behavior 2673
- Oncorhynchus nerka,**
DEG, detection, magnetic fields 649
foraging behavior, predation, zooplankton 2674
orientation, larvae, environmental factors, Canada, British Columbia, Harrison L. 647.
- Ondatra zibethica,**
stress, diving, cardiovascular system 3730
- Onitis belial,**
nesting behavior, nest building, larvae survival 2424.
- Onitis iona,**
nesting behavior, nest building, larvae survival 2424.
- Ontogeny,**
acoustic startle response, visual perception, rats 1615
aggressive behavior, social behavior, chickens 3444
approach behavior, males, rats 2921
auditory stimuli effects on cortex electropotential, man 1927
avoidance behavior, open-field behavior, behavioral genetics, rats 2913
avoidance behavior, punishment, reinforcement, chickens 1720
avoidance learning, rats 1618
behavior, comparative studies, *Sciuridae* 520
behavior development, ethology, bibliographies, Primates, books 4493
behavior, growth, arboreal species, *Thamnomys dolichurus* 3881
behavior, reviews 3872
cognitive ability, motor activity, social environment, rearing, rats 3889
cognitive ability, visual perception, hamsters 1890
defensive behavior, response, external stimuli, rats 2920
environmental effects, lead, behavior, striatal dopamine neurons, rats 1624
escape behavior, development, activity, nerves, *Eisenia foetida* 3137
exploratory behavior, play, juveniles, *Gynura himalaica* 1108
feeding behavior, external stimuli, imprinting, juveniles, *Alcidae* 1600
feeding behavior, migrations, juveniles, *Haemulon flavolineatum*, *Haemulon plumieri*, US Virgin Is., St. Croix 3837
feeding behavior, social behavior, *Cercodyon thous*, *Speothos venaticus* 2917
flight activity, juveniles, chickens 1873
homing behavior, orientation, isolation effects on, neonates, rats 3879
homing behavior, orientation, sun, pigeons 2909
learning behavior, naloxone effects on, intrauterine exposure, rats 1611
learning behavior, retinol intrauterine exposure effects on, rats 2912
locomotion, walking, infants 1877
locomotor activity, emotional behavior, N-nitroso-N-ethylurea effects on, intrauterine exposure, rats 2914
maternal behavior, exploratory behavior, sociological aspects, proteins deprivation, rats 524
memory, forgetting, infants, proactive interference, rats 1823
olfactory perception, feeding, site selection, juveniles, rats 1625
olfactory perception, odors, nests, *Microtus pinetorum*, *Peromyscus leucopus*, *Mus musculus* 3876
ovary development, reproductive strategy, *Poephila guttata* 165
perception, neonates, dogs 2919
play, social behavior, social hierarchy, rats 2233
receptors, morphine, rats 2122
reflexes (gill-withdrawal), *Aplysia californica* 2905
reproductive behavior, *Mus musculus* 3565
sexual behavior, fluoxymesterone effects on, hamsters 2182
sexual behavior, sex hormones, sheep 2491
social behavior, *Microtus ochrogaster*, *Microtus pennsylvanicus* 3637
social behavior, mother-offspring interactions, *Gornilla gorilla gorilla* 1355
social behavior, mother-offspring interactions, *Macaca mulatta* 2593
social behavior, play, mother-offspring interactions, *Pan troglodytes*, *Pongo pygmaeus* 1628
social behavior, predatory behavior, *Tyto alba* 200
social behavior, rats 3877
social behavior, rearing, handling, *Canis lupus* 2916
social behavior, social environment, isolation, *Mesocricetus auratus* 3636
social behavior, social rank, mother-offspring interactions, *Macaca mulatta* 2592
social interactions, maternal behavior, mother-offspring interactions, infants, *Macaca silenus* 3890
social interactions, spatial distribution, *Spermophilus richardsoni* 3631
song, learning, *Fringilla coelebs* 1168
song, vocalization behavior, *Melospiza georgiana* 3419
successive negative contrast, reinforcement, juveniles, rats 2922
suckling behavior, neonates, rats 3602
swimming behavior, *Clupea harengus pallasi* 3044
swimming behavior, neonates, dopamine effects on, rats 526
temperature preferences, developmental stages, *Crocodylus novaeguineae* 458
thermoregulatory behavior, hamsters 2870
unconditioned response, auditory stimuli, chickens 2910
vocalization behavior, auditory communication, *Passeriformes* 3403
- Oryzomys,**
digging behavior, activity patterns, substrate preferences 1573.
- Oryzomys leucogaster,**
circadian rhythms, wheel running, photoreceptors, light effects 760
food consumption, saccharin, quinine effects on 1501
- Oryzomys torridus,**
maternal behavior, paternal effects, urine chemical stimuli 3594
predators, attack, food organisms defensive behavior effects on 3744
predatory behavior, food availability, deprivation effects on 3743.
- Oryzoteuthis borealljaponica,**
mating behavior, copulation, functional morphology 2384.
- Open-field behavior,**
acrylamide effects on, rats 4306
activity patterns, acetic acid, lead acetate effects on, toxicity, rats 4296
activity patterns, lead effects on, mice 3268
activity patterns, phenobarbitone effects on, intrauterine exposure, mice 3245.

Open-field behavior, (continued)

- activity patterns, stress, rats 4483.
- alcohol effects on, mice 3277
- anti-predator behavior, escape behavior, social behavior, rats, mice 3837.
- avoidance behavior, melanotropin fragments effects on, rats 4363.
- brain catecholamines, emotional behavior, rats 3158.
- colliculus lesions effects on, rats 3202.
- cortex (entorhinal) lesions, rats, chicks 2030.
- drug effects, cocaine, procaine, lidocaine, rats 2165.
- drug effects, etiracetam, rats 2157.
- drug effects, melatonin, rats 2146.
- drug effects, metabolites, fluphenazine, 7-hydroxy-fluphenazine, fluphenazine-sulfoxide, rats, mice 961.
- effects on, zinc, age, rats 3886.
- elimination behavior, locomotor activity, rats 3360.
- emotional behavior, mice 3358.
- emotional behavior, rearing, isolation, rats 3884.
- escape behavior, competitive behavior, habituation, Meriones unguiculatus 1635.
- escape learning, genotype-environment interactions, mice 2887.
- exploratory behavior, choline acetyltransferase, estrus cycle, mice 1109.
- feeding, drug effects, anxiolytic drugs, rats 2129.
- haloperidol effects on, rats 937.
- heritability, selection, chickens 2883.
- histamine effects on, intracranial chemical stimulation, hippocampus, rats 4169.
- hyperactivity, drugs, lithium, amphetamine, inducers, rats 994.
- hysteria, external stimuli, rats 1572.
- intrauterine exposure, toluene, effects on, mice 3255
- isolation stress effects on, mice 1622.
- lead effects on, mice 4291.
- lead nitrate effects on, intrauterine exposure, rats 4324.
- lesions, olfactory bulb, rats 3189.
- locomotor activity, apomorphine, amphetamine effects on, rats 987
- locomotor activity, dopamine effects on, rats 3175.
- locomotor activity, monitoring methodology, Television, rats 2202.
- noradrenaline, 5-hydroxytryptamine effects on, rats 4200.
- norlevo-methyl acetate intrauterine exposure effects on, chickens 4302.
- ontogeny, behavioral genetics, rats 2913.
- predatory behavior, chickens 1485.
- rearing, social environment effects on, juveniles, sheep 3348.
- stereotyped behavior, chlorides, rats 1112.
- stress, selection, noradrenaline, sympathetic nervous system, rats 3147.
- weaning, pituitary adrenal gland, hormone release, juveniles, pigs 1348

Operant conditioning,

- acrylamide effects on, rats 4306.
- alteration learning, rats 3997.
- appetitive behavior, *Lepomis macrochirus* 2929.
- appetitive conditioning, transfer learning, rats 542.
- avoidance behavior, shock, reinforcement, rats 1680.
- avoidance learning, leg lowering, spinal rats 3974.
- avoidance learning, passive avoidance, fighting, shock, *Bufo* sp., *Rana* sp. 1718.
- behavioral contrast, frustration theory, *Rattus rattus* 1105.
- blocking, conditioned reinforcement, rats 3944.
- cardiac conditioning, blood pressure, *Papio* 1712.
- chloridorm effects on, rats 3239.
- classical conditioning, stimulus control, discrimination learning, pigeons 3921.
- cortex activity, Saimiri 4217.
- defense, ESB, hippocampus, dogs 3212.
- delayed response, maze learning, taste aversion learning, rats 551.
- deprivation shift, reinforcement, rats 2937.
- deprivation stimuli, cues, reinforcement, rats 545.
- discrimination learning, sound, pigeons, *Agelaius phoeniceus*, *Molothrus ater* 1771.
- early experience effects on, malnutrition, food reinforcement, rats 3885.
- epilepsy, cortex neurotransmission, *Macaca mulatta* 803.
- ESB, hippocampus, rats 3213.
- ESB, intracranial self-stimulation, diencephalon, rats 4255.
- escape learning, embryos, ducks 563.
- free conditioning, punishment extinction, sex difference, rats 1744.
- feeding behavior, controlled conditions, *Lepomis macrochirus* 534.
- feeding, extinction, ablation, amygdala, rats 3207.
- fixed interval schedule, performance, rats 3931.
- food intake, water intake, intracranial chemical stimulation, cholecystokinin octapeptide, pigs 927.
- interresponse time, delayed reinforcement, pigeons 3916.
- intracranial self-stimulation, acquisition, cerebellum pathways, rats 4262.
- learning behavior, effects on, rats 911.
- learning behavior, reinforcement schedules, rats 1682.
- licking behavior, behavioral contrast, rats 1678.
- light intensity preferences, light, dark, sheep, cattle 1102.
- multiple schedule, matching-to-sample, short term memory, pigeons 1812.
- multiple schedule, pigeons 3919.
- olfactory discrimination learning, drugs, rats 3995.
- omission training, reinforcement, rats 1691.
- performance, dopamine effects on, mice 611.
- performance, stereotyped behavior, alcohol effects on, rats 4334.
- quality-quantity interaction, taste aversion learning, rats 1726.
- reinforcement devaluation, taste aversion learning, rats 3951.
- reinforcement, interresponse time, rats 541.
- reinforcement schedules, carbon monoxide effects on, rats 3941.
- reinforcement schedules, morphine tolerance, pigeons 4284.
- reinforcement schedules, response patterning, rats 3938.
- relationship, natural selection, reviews 2875.
- responsiveness, drugs effects on, statistical analysis, rats 991.
- responsiveness, intertrial interval effects on, rats 547.
- schedule, food stimuli effects on, *Carassius auratus* 533.
- schedule-induced behavior, neurochemistry, catecholamine, *Rattus rattus* 841.
- shock, suppression, acceleration 1640.
- solvents, effects on, locomotor activity, temporal perception, rats 514.
- stimulus control, retention, pigeons 3904.
- stress, amphetamine, phencyclidine effects on, rats 4323.
- taste aversion, operant response, conditioned reinforcement, rats 546.
- toluene, effects on, learning behavior, mice 3252.
- tonic immobility effects on performance, *Galus gallus* 1123.
- training, methodology, blood pressure, self-assessment, *Papio cynocephalus* 1098.
- transfusion, plasma, protein, rats 1683.
- variable interval schedule, reinforcement, visual stimuli, pigeons 3909

Operant conditioning, (continued)

- water deprivation, arousal, hypertension, rats 1696.
- Operant response,**
- acquisition, drug effects, pimozide, rats 2137.
 - amphetamines, chloridazepoxide, effects on, Saimiri 2173.
 - antidepressants effects on, monkeys 1032.
 - appetitive conditioning, operant conditioning, transfer learning, rats 542.
 - attention task, alternation learning, contingency, sensitivity, man 1710.
 - autoshaping, choice, pigeons 3915.
 - behavior maintenance, drug effects, codeine, antagonists, naltrexone, *Macaca mulatta* 1027.
 - behavior maintenance, drug effects, codeine, ketamine, *Macaca mulatta* 1023.
 - burrowing behavior, digging, reinforcement, rats 1690.
 - chain schedule, fixed interval schedule, choice, rats 3947.
 - chain schedule, preferences, signals, reinforcement, choice learning, pigeons 1671.
 - concurrent chain schedule, pigeons 3917.
 - conditioned reinforcement, operant conditioning, taste aversion, rats 546.
 - consummatory behavior, learned response, pecking behavior, stimulus control, autoshaping, pigeons 1647.
 - CS, feeding 1639.
 - 5,7-dihydroxytryptamine, effects on, rats 1039.
 - discrimination learning, stimulus control, serial learning, pigeons 1772.
 - discrimination learning, vocalization behavior, conditioning, monkeys 1799.
 - discriminative stimuli, concurrent schedule, variable interval schedule, response matching, stimulus control, pigeons 1673.
 - drug effects, antagonism, 2,5-dimethoxy-4-methylamphetamine, quipazine, metergoline, rats 2134.
 - drug effects, bombesin, thermoregulation, rats 945.
 - drug effects, fixed interval schedule, fixed ratio schedule, pigeons 935.
 - drugs, discrimination, training, rats 1092.
 - drugs, morphine, enkephalins, rats 3274.
 - escape behavior, shock, fixed interval schedule, rats 1740.
 - feeding behavior, lesions, telencephalon, pigeons 2013.
 - feeding stimuli, training, misbehavior, rats 1693.
 - fixed interval schedule, electrical stimulation, fixed time schedule, chain schedule, monkeys 1714.
 - fixed ratio schedule, phenytoin effects on, pigeons 4383.
 - intracranial self-stimulation, trigeminal nerve ablation effects on, rats 4159.
 - learning behavior, lead effects on, juveniles, rats 3228.
 - maintenance, drugs effects on, rats 1018.
 - memory, delayed response, matching-to-sample, discriminative stimuli, children 1831.
 - methadone effects on, intrauterine exposure, mice 3227.
 - mixed schedule, stimulus control, pigeons 1649.
 - neurophysiology association, heart rate, blood pressure, Saimiri 4216.
 - punishment, drug effects, tranquilizers, tryptamine antagonists, rats 2162.
 - rate, caffeine effects on, reinforcement schedules, rats 4287.
 - reinforcement, DRL schedule, punishment, rats 3942.
 - reinforcement, punishment, electrical stimulation, self-stimulation, monkeys 1711.
 - reinforcement schedules, carbon monoxide effects on, rats 4298.
 - reinforcement schedules, extinction, pigeons, *Corvus brachyrhynchos* 3893.
 - response matching, pigeons 1648.
 - self-stimulation, drug effects, rats 2115.
 - serial learning, short term memory, pigeons 3912.
 - shock, schedule-induced behavior, drug effects, diazepam, rats 2126.
 - short-term memory, discrimination learning, delayed reinforcement, pigeons 2986.
 - stereotyped behavior, fixed interval schedule, fixed ratio schedule, pigeons 3914.
 - stereotyped behavior, reinforcement schedules, pigeons 3918.
 - temporal discrimination, endogenous stimuli, rats 1826.
 - topography, reinforcement schedules, fixed ratio schedule, fixed interval schedule, continuous reinforcement, water, food, rats 1699.
 - triethyltin effects on, rats 4293.
 - trimethyltin effects on, mice 4318.
- Ophiophthalmus**
- food organisms, predation, *Larus canus*, British Isles, Mainland 348.
- Ophedrys aestivus**,
- habitat utilization, diets, movements 3800.
- Ophiarthrum pictum**,
- spawning behavior, night, Palau Is. Coast 3487.
- Ophiodon elongatus**,
- parental behavior, nests, spawning 2452.
- Ophiura texturata**,
- feeding behavior, diets, Denmark, Oeresund, Denmark, Isefjord 1397.
- Ophrya leucostoma**,
- swarming behavior, flight activity 3609.
- Opiates**,
- agonists, antagonists, effects on feeding behavior, sheep 3753.
 - analgesia, stress, classical conditioning, mice 4479.
 - antagonists, effects on mating behavior, responsiveness, hamsters 4344.
 - anticonvulsants, effects on activity patterns, mice 2166.
 - chemoreceptors, drug effects, naloxone, food intake, rats 946.
 - effects on amygdala, cardiac conditioning, rabbits 928.
 - effects on distress vocalization behavior, juveniles, chickens 785.
 - effects on food intake, water intake, rats 955.
 - effects on memory, age effects, rats 610.
 - receptors, role, enkephalins effects on avoidance learning, rats 3165.
- Opiate receptors**,
- rearing effects on, isolation, rats 3875.
 - substantia nigra pars reticulata, regulation, striate cortex efferent pathway, rats 4162.
- Opioids**,
- agonists, antagonists, drug effects, feeding, drinking, rats 2150.
 - agonists, antagonists, drug effects, morphine tonic immobility, juveniles, chickens 1980.
 - agonists, effects on EEG, rats 4384.
 - analgesia, agonistic behavior, rats 4165.
 - analgesia, mediation, nerves, hormones, rats 4160.
 - antagonists, agonists, stereoselectivity, drug effects, feeding, rats 2131.
 - brain, copulation, pain perception, rats 3123.
 - dorsolateral funiculus, role, classical conditioning analgesia, rats 4212.
 - effects on motor activity, rats 3284.
 - effects on sleep and wakefulness, rats 3113.
 - effects on thermoregulatory behavior, motor activity, cats 4376.

- Oplurus cuvieri cuvieri**, social interactions, agonistic behavior, display, Madagascar 3613
- Oplurus cyclurus**, alarm behavior, display, predators effects on 2284
- Oplurus cyclurus**, social interactions, agonistic behavior, display, Madagascar 3613
- Oplurus ferenensis**, social interactions, agonistic behavior, display, Madagascar 3613
- Oplurus grandidieri**, alarm behavior, display, predators effects on 2284
- Oplurus grandidieri**, social interactions, agonistic behavior, display, Madagascar 3613
- Oplurus quadricinctatus**, social interactions, agonistic behavior, display, Madagascar 3613
- Opioids**, isomers, conditioned response, discrimination learning, rats 2139
- Oporornis tolmiei**, foraging behavior, seasonal variations 3710
- Oreanus tau**, activity patterns, diel variations 2830
- Oreanus tau**, sound production, neurophysiology 4187
- Optic nerve**, neurons, correlation, visual stimuli response, Rana nigromaculata 714
- Optic nerve**, neurophysiology, locomotor activity, circadian rhythms, Bursatella leachi plei 3089
- Optic tectum**, electrophysiological recording, ganglia, visual field, Rana esculenta 4186
- Optic tectum**, lesions, visual stimuli, tactile stimuli, prey acquisition, Rana pipiens 2012
- Optic tectum**, neurons responsiveness, food organisms, Bufo bufo 1978
- Optical illusions**, visual perception, Papio anubis 4091
- Optimization**, energy intake, foraging behavior, Bombus flavifrons, Bombus appostus 2630
- Optimization**, feeding behavior, Bombus appostus 309
- Optimization**, feeding behavior, ingestion, food availability, models 253
- Optimization**, foraging behavior, energetics, parental behavior, Aves 1479
- Optimization**, foraging behavior, Ipomopsis aggregata host plants, Trochilidae 2691
- Optimization**, foraging behavior, Meliphaeidae 2692
- Optimization**, foraging behavior, nectar reinforcement effects on, Bombus sandersoni, Vespa vulgaris 1414
- Optimization**, foraging behavior, reinforcement schedules, pigeons 1650
- Optimization**, locomotor activity, feeding behavior, Oreaster reticulatus 268
- Optimization**, reinforcement, choice learning, pigeons 1721
- Opioid response**, electrical stimulation, ganglia, flight, Calliphora erythrocephala 914
- Opioid response**, flight activity, visual stimuli, compound eyes, Apis mellifera 3034
- Opioid response**, visual perception, visual stimuli, Sauri sciurus 729
- Opioid response**, vocalization behavior, defensive behavior, emotional behavior, cats 76
- Oral behavior**, forebrain ablation effects on, chickens 3183
- Oral cavity**, orienting response, external stimuli, Triturus vulgaris, Triturus cristatus 4043
- Orchards**, Olea europaea, foraging behavior, feeding behavior, Aves 2731
- Orchelimum gladiator**, mating behavior, aggressive behavior, sound production (biological) 143
- Orchis orca**, predators, predation, feeding behavior, Lobodon carcinophagus 381
- Oreocetes obscurus**, temperature preferences, avoidance behavior, statistical analysis, acclimation 2769
- Oreaster reticulatus**, feeding behavior, food preferences, US Virgin Is., St. Croix Coast 3657
- Oreaster reticulatus**, feeding behavior, locomotor activity, optimization 268
- Oreoscoptes montanus**, nesting behavior, site location, Artemisia, vertical distribution 1305
- Oreoscoptes montanus**, nesting, breeding success, territorial behavior, USA, Idaho 2465
- Oreotragus oreotragus**, alarm behavior, vocalization behavior, duetting 2311
- Organic matter**, ingestion, sediments, detritus feeders, estimation methodology, Nucula annulata 2613.
- Organization**, brain, learning effects on, rhesus monkeys 876
- Orientation**, activity patterns, EEG, Bufo regularis, Rana temporaria 3140
- Orientation**, Anas 419
- Orientation**, anemotaxis, chemical stimuli, flowers, Haden bicrurus, Dielipha elpenor 3008
- Orientation**, approach behavior, cortex (anteromedial) lesions effects on, rats 4241
- Orientation**, auditory stimuli, Gryllus bimaculatus 3068
- Orientation**, behavior, chemical stimuli, disease transmission, Schistosoma mansoni, Biophalaria 626
- Orientation**, caffeine effects on, juveniles, rats 4309
- Orientation**, chemical stimuli, migrations, Pisces 3010
- Orientation**, chemical stimuli, olfaction, Pisces 3074
- Orientation**, cues, motivation, thirst, discrimination learning, transfer learning, rats 742
- Orientation**, development, cortex (visual), neurons, enucleation, juveniles, cats 861
- Orientation**, discrimination, homing behavior, magnetic fields, dark, pigeons 662
- Orientation**, echolocation, books, Mammalia 3372
- Orientation**, echolocation, feeding behavior, predation, Trachops cirrhosus 390
- Orientation**, echolocation, sound production (biological), Desmodus rotundus 1857
- Orientation**, escape behavior, Euphausiidae 3775
- Orientation**, external stimuli, oral cavity, Triturus vulgaris, Triturus cristatus 4043
- Orientation**, flat migrations, Aves, Canada 4050
- Orientation**, feeding, perception, aquatic environment, Aves 4054
- Orientation**, flight activity, Acrididae 679
- Orientation**, flight activity, littoral zone, inheritance, Talitridae 2995
- Orientation**, flight activity, ocelli effects on, Acrididae 633
- Orientation**, flight activity, olfactory stimuli, atmospheric conditions, Insecta 2797
- Orientation**, food sources, locomotor activity, foraging behavior, Rhodnius prolixus 2651
- Orientation**, food, water, deprivation, reinforcement schedules, temporal discrimination, pigeons 1667
- Orientation**, foraging behavior, navigation behavior, Apis mellifera 3006
- Orientation**, geotaxis, larvae, Hymeniacidon sanguinea 3011
- Orientation**, geotaxis, Lymnaea stagnalis 4034
- Orientation**, geotaxis, magnetic fields, aquatic organisms, reviews 2990
- Orientation**, geotaxis, gravity receptors, sensilla, Arenivora 1907
- Orientation**, habitat, littoral zone, Talitrus saltator 2996
- Orientation, (continued)**
- Orientation**, habituation, ESB, cortex (auditory), midbrain, reticular formation, thalamus, cats 3211
- Orientation**, homing behavior, celestial cues, Eptesicus fuscus 4064
- Orientation**, homing behavior, environmental factors, olfactory stimuli, Columba 1852
- Orientation**, homing behavior, magnetic fields, pigeons 4058
- Orientation**, homing behavior, navigation behavior, olfaction, pigeons 3022
- Orientation**, homing behavior, nesting behavior, Hirundo rustica 4059
- Orientation**, homing behavior, olfaction, environmental effects, pigeons 660
- Orientation**, homing behavior, olfactory stimuli role, pigeons 4046
- Orientation**, homing behavior, olfactory stimuli role, Testudo hermanni 4040
- Orientation**, homing behavior, Polistes gallicus 3003
- Orientation**, homing behavior, Rhinopoma microphyllum 3027
- Orientation**, homing behavior, sun, ontogeny, pigeons 2909
- Orientation**, homing behavior, wind, Polistes gallicus, Italy 643
- Orientation**, host plants, chemotaxis, sense organs, larvae, Hylemyia antiqua 644
- Orientation**, host plants, feeding behavior, gustatory stimuli, Dendroctonus ponderosae 3000
- Orientation**, huddling, preferences, sex, social behavior, juveniles, rats, Rattus norvegicus 1378
- Orientation**, landing behavior, phototaxis, Scaptiscus aetulus 1905
- Orientation**, larvae, environmental factors, Oncorhynchus ne-ka, Canada, British Columbia, Harrison L. 647
- Orientation**, lesions, cortex (visual), colliculus, rats 3203
- Orientation**, light, polarization, Apis mellifera 4035
- Orientation**, locomotion, Arthropoda 2994
- Orientation**, locomotion, sex pheromone effects on, l'erpilana americana 2256
- Orientation**, magnetic fields, flight, Nucca prunella 4036
- Orientation**, magnetic fields, geotaxis, Apis mellifera 1844
- Orientation**, magnetic fields, receptors, Apis mellifera 1911
- Orientation**, mating behavior, Heliothis virescens 1246
- Orientation**, migrations, celestial cues, Erit hacus rubecula 40
- Orientation**, migrations, magnetic fields, Sylvia atricapilla, E. lacus rubecula 3014
- Orientation**, motor activity, triethyltin effects on, rats 3248
- Orientation**, movements, host plants, larvae, Athetogenia socc ta 2784
- Orientation**, navigation behavior, behavior ecology, Passerina ryanae 419
- Orientation**, navigation behavior, homing behavior, urban env., omniscus, pigeons 4056
- Orientation**, navigation behavior, light polarization, Apis mellifera mellifera 4037
- Orientation**, navigation behavior, olfaction, pigeons 4049
- Orientation**, navigation behavior, olfactory deprivation effects on, pigeons 4048
- Orientation**, neonates, isolation effects on, rats 3879
- Orientation**, nesting behavior, Melanepes uruguayalis, USA, Arizona 2845
- Orientation**, nests, feeding experience, Paravespa viridis 2963
- Orientation**, neurons, gravity sensitivity, Gryllus 640
- Orientation**, night migrations, Aves 3019
- Orientation**, olfaction, host plants odors, Psila rosae, Dacus carota 4103
- Orientation**, olfactory stimuli, olfactory perception, Phoxinus laevis 4108
- Orientation**, prey, auditory stimuli, predatory behavior, Polistes incisi 1407
- Orientation**, selectivity, strait cortex, stimulus contrast, cats 3128
- Orientation**, sequence, cow entry order, yield, milk production, cattle 1854
- Orientation**, sex pheromone, attraction, males, Penplaneta americana 2999
- Orientation**, sex pheromone, sexual behavior, females, Plodia interpunctella 2273
- Orientation**, sky, display, wagtail dance, food sources, Apis florea 3383
- Orientation**, solar orientation, lunar orientation, Talitrus saltator 1832
- Orientation**, spatial distribution, schooling behavior, larvae, Bufo woodhousei, Xenopus laevis 1796
- Orientation**, substrate preferences, burrowing, Ebala tuberosa 427
- Orientation**, sucking behavior, olfactory stimuli role, neonates, pigs 3601
- Orientation**, sunlight, thermoregulatory behavior, Frontonella communis 443
- Orientation**, sunlight, thermoregulatory behavior, Gynaephora rossi 2808
- Orientation**, swimming behavior, sense organs, direction finding, waves, Aplysia brasiliana 632
- Orientation**, swimming, visual stimuli, navigation behavior, Aplysia brasiliana 631
- Orientation**, taxis, magnetic fields, bacteria 2992
- Orientation**, U V radiation effects on, Plea leachi 3067
- Orientation**, visual evoked response, eye, Musca domestica 704
- Orientation**, visual perception, color, light, Trileurodes vaporariorum 4079
- Orientation**, visual perception, flight activity, Musca domestica 641
- Orientation**, visual perception, ocelli neurons, Schistocerca americana gregaria 711
- Orientation**, visual perception, tracking, mathematics, Musca domestica 706
- Orientation**, visual perception, vestibular interactions 4074
- Orientation**, visual stimuli, flight, Drosophila hydei 3052
- Orientation**, water currents, migrations, juveniles, Salmo gairdneri 3009
- Orientation**, webs, solar radiation, effects on, thermoregulation, Micrathena gracilis 2998
- Orienting response**, autoshaping, reviews 3900
- Orienting response**, copulation, steroids, testosterone propionate, females, Mesocricetus auratus 1319
- Orienting response**, locomotor activity, homovanillic acid effects on, rats 2088
- Orienting response**, males, sex pheromone, Penplaneta americana 1843
- Orienting response**, oral cavity, external stimuli, Triturus vulgaris, Triturus cristatus 4043
- Oriolus oriolus**, feeding behavior, ground 3725
- Orius insidiosus**, oviposition, site selection, host plants 3520
- Orius insidiosus**, predatory behavior, predator-prey interactions, Sericothrips variabilis 1551
- Ornithonyssus**, activity patterns, atmospheric conditions effects on, gases, Ornithonyssus 1538
- Orotic acid**, drug effects, avoidance behavior, memory, rats 974
- Orthetrum austent**, predation, food organisms, Lepidoptera 2631
- Orthoptera**, mating behavior, aggressive behavior, sound production (biological) 143
- Oryctolagus cuniculus**, social organization, effects on population genetics 243
- Oryzomys palustris**, activity patterns, effects on sympatric populations, nesting behavior, distribution, Ammosipiza maritima 420
- Oryzomys palustris**, swimming behavior, pollution effects, oil spills 2855
- Oscillation**, circadian rhythms, mathematical models, Drosophila 1933
- Oscillation**, leaves vibrations, communication, Cupressus salei 1128
- Oscillations**, visual perception, tracking, Musca domestica 713

- Oscinella frit**,
oviposition, host plants, host selection, distribution, eggs 3497.
- Osmia marginata**,
nest building 1542.
- Osmoregulation**,
behavior, sodium chloride, ablation, amygdala, hypothalamus, rats 794.
drinking behavior, prostaglandin E₂, angiotensin II, rats 1965.
habitat preferences, autecology, *Kinostemon bauri* 460.
homostasis, coiling behavior, *Trichostonyx colubiformis* 2779.
salinity effects, shells movements, *Scrobicularia plana* 423.
salinity tolerance, ecological distribution, *Galeolaria caespitosa*, Australia Coast 2772.
- Osteoglossum bicirrhosum**,
auditory perception, auditory stimuli 3073.
- Ostrinia**,
mating behavior, reproductive isolation, sympatric populations 2422.
- Ostrinia nubilalis**,
flight activity, temperature effects 1866.
oviposition, circadian rhythms, photoperiod 4133.
pheromones, olfactory perception, electroantennograms 1904.
- Ostrion lentiginosum**,
locomotion, mechanical properties 3041.
- Oswaldi**,
traps, catches, oviposition 109.
- Otocyon megalotis**,
activity patterns, diets, feeding behavior 2761.
- Otus asio**,
predation, *Myotis lucifugus* colonies 3717.
predators, anti-predator behavior, seasonal variations, *Turdus migratorius* 2840.
- Otus trichopterus**,
grooming, mating behavior, copulation 3541.
- Ovary**,
ablation, effects on stereotyped behavior, rats 3325.
ablation, estrus cycle, feeding behavior, diets, food preferences, rats 397.
ablation, maternal behavior, progesterone withdrawal, estrogens, rats 1968.
ablation, sexual behavior inhibition, progesterone, estradiol, rats 1050.
ablation, sexual behavior, lordosis, 2-hydroxyestradiol, 4-hydroxyestradiol, rats 1048.
ablation, sexual behavior, sex hormones, implants, estradiol, rats 1051.
ablation, sexual behavior, sex hormones, serum levels, estradiol, progesterone, rats 1052.
development, dispersal flight, *Hippodamia convergens* 3793.
- Ovatus malusculus**,
settling behavior, locomotor activity, host plants 453.
- Overshadowing**,
odors, taste aversion learning, rats 3983.
- Overtraining**,
extinction, classical conditioning, *Carassius auratus* 530.
- Overwintering**,
aggregation behavior, clumping, gynes, *Polistes exclamans* 3466.
body weight, migrations, *Sylvia atricapilla*, Tunisia 4052.
flight activity, emergence, *Thanasimus dubius* 3787.
migrations, homing behavior, *Passeriformes* 3013.
migrations, *Larus ridibundus*, Switzerland 657.
nesting behavior, *Linis argentata* 1552.
sex differences, spatial distribution, *Phalaropus fulicarius*, *Calidris alba* 3812.
- Overwintering behavior**,
agricultural land, abundance, *Aves* 473.
homing behavior, site location, *Dendroica palmarum* 659.
nesting, communities, *Microtus xanthognathus*, USA, Alaska 1570.
- Oryzobes moenchatus**,
activity patterns, movements, seasonal variations 2862.
- Oviposition**,
attractancy, dipropyl disulfide, EAG responses, chemoreception, *Hylemya antiqua* 1286.
Boophilus microplus, parasites, *Babesia bovis* 1245.
circadian rhythms, *Bulinus africanus* 4135.
circadian rhythms, photoperiod, *Ostrinia nubilalis* 4133.
copulation, *Lymnaea truncatula* 101.
deterrents, hosts plants, *Hylemya* 112.
deterrents, intraspecific relationships, *Rhagoletis basiola* 1130.
deterrents, plant extracts, *Thuja plicata*, *Hylemya antiqua* 2638.
diel variations, *Athergona soccata* 3093.
diurnal variations, aggregation, environmental factors, *Zonocerus variegatus* 1280.
edge effect, host searching behavior, *Anthracinus cardamines* 2392.
egg-throwing, trees, *Mecistogaster jocaste*, *Bolivia* 2438.
Enallagma ebrium, *Enallagma vernale* 2430.
environmental effects, eggs hatchability, *Chilo suppressalis*, Japan 1253.
experience, discrimination, hosts, *Pteris rapae crucivara*, *Apanteles glomeratus* 9504.
factors affecting, *Acheta domesticus* 3512.
fecundity, mating behavior, *Hylotrupes bajulus* 1283.
habitat preferences, effects on larvae survival, *Drosophila nigrospiracula*, *Drosophila melan* 122.
habitat preferences, host plants, *Eupytchia ibyde* 2423.
habitat preferences, *Maruca testulalis* 103.
hormones, 20-hydroxyecdysone, *Aedes aegypti* 3307.
host plants, host searching behavior, host preferences, *Colias philodice eriphyle* 2441.
host plants, host selection, distribution, eggs, *Oscinella frit* 3497.
host plants, substrate preferences, *Cajanus cajan*, *Melanagromyza obtusa* 2435.
host searching behavior, parasites, *Paracryptophonyx africanus* 3795.
host searching behavior, parasitoids, *Amius hesperidum*, *Encarsia opulenta*, *Aleurocanthus woglumi* 1550.
host searching behavior, parasitoids, *Ascogaster reticulatus* 3492.
host selection, fecundity, parasitoids, *Euplectrus kuwanae* 1273.
host-parasite interactions, host preferences, parasitoids, *Poecilosciticus corthumatus*, *Bupalus piniarius*, Netherlands 2403.
insemination effects on, *Apis mellifera* 3515.
Lygus hesperus, genotypes, host plants 1249.
markers, host selection, legumes, *Callosobruchus maculatus* 1244.
mating behavior, activity patterns, *Dioryctria amatella* 1258.
mating behavior, *Antheraea yamamai*, Japan 1254.
mating behavior, *Apis mellifera* 2394.
mating behavior, *Batocera lineolata*, Japan, Tokyo 2408.
- Oviposition, (continued)**
mating behavior, life history, oviposition, *Lanugo retentor* 139.
mating behavior, territorial behavior, *Platytypha caligata* 3505.
nest building, galleries, *Dendroctonus frontalis* 1238.
nesting behavior, habitat, *Lyroda subita* 2416.
parasites, host specificity, *Dryinidae* 117.
parasites, population density, host selection, competition, *Biostera longicauda* 1545.
parasitoids, host searching behavior, kairomones, eggs, *Adoxophyes*, *Ascogaster reticulatus* 3495.
parental behavior, social hierarchy, dominance, *Parishogaster nigricans serrei* 2891.
population density, temperature effects, female body size, emergence, effects on, *Dendroctonus frontalis* 1263.
predation evolution, *Ammophila aberti* 1539.
reproductive behavior, environmental effects, *Lipeurus lawrensis tropicalis* 2390.
reproductive behavior, habitat, *Phyllocladus galapagensis* 2447.
rhythms, acetic acid effects on, *Drosophila melanogaster* 1279.
sexual behavior, diel variations, photoperiods, circadian rhythms, *Culex quinquefasciatus* 1237.
sexual behavior, *Phthia picta*, Brazil, Sao Paulo 2406.
sexual receptivity, mating, feeding, *Amblyomma americanum* 3518.
sexual reproduction; *Nectopsyche albida*, USA, Indiana 1282.
site selection, *Drosophila melanogaster* 120.
site selection, host plants, *Orus insidiosus*, *Nabis roseipennis*, *Nabis americeferus* 3520.
spawning, mating behavior, *Macrobrachium nipponense* 2449.
stimulants, *Aedes togoi* 114.
stimulation, microorganisms effects on, *Hylemya antiqua* 129.
substrate preferences, *Aedes aegypti* 2417.
substrate preferences, host plants, *Callosobruchus chinensis*, *Callosobruchus maculatus* 3503.
substrate preferences, host plants, *Sorghum vulgare*, *Athergona soccata* 3493.
substrate preferences, reproductive behavior, *Menidia menidia*, USA, South Carolina Coast 1294.
substrate preferences, *Tetrathemis polleni* 2434.
synchronization, reproductive behavior, breeding success, *Rana sylvatica* 3525.
traps, catches, *Paraseta silvestris*, *Tachinomyia*, *Oswaldi*, *Patella silvatica*, *Gonia sagat* 109.
webs spinning, *Signiphora coquillettii* 4487.
- Ovis**,
maternal behavior, endocrine system, sensory stimuli regulation, juveniles 203.
vocalization behavior, recognition, mother-offspring interactions 3434.
- Ovis aries**,
feeding behavior, grazing, food preferences, environmental effects 2220.
- Ovis canadensis**,
feeding behavior, food preferences, USA, Montana 382.
habitat selection, spatial distribution, sex differences, Canada, Alberta 2865.
- Ovis canadensis canadensis**,
activity patterns, human impact, disturbance 2863.
social behavior, energy utilization, correlation, physiology 3627.
- Ovulation**,
sexual behavior, estradiol-17 β , progesterone, plasma levels, cattle 3326.
- Oxotremorine**,
effects on locomotor activity, nucleus accumbens, rats 4198.
effects on predatory behavior, *Putorius furo* 4178.
- Oxprenolol**,
effects on activity patterns, exploratory behavior, rats 976.
- Oxybelus sericeus**,
nesting behavior, territorial behavior, biology, males 1543.
- Oxyen**,
effects on geotaxis, orientation, *Lymnaea stagnalis* 4034.
- Oxygen consumption**,
energetics, vocalization behavior, nest building, *Physalaemus pustulosus* 3802.
- Oxygen depletion**,
environmental conditions, behavior, emergence, *Lipophrys pholis*, *Taurulus bubalis*, *Ciliata mustella* 468.
- Oxyne azuroputata**,
food preferences, growth, filaments 1391.
- Oxytocin**,
analogues, effects on memory, avoidance learning, rats 3164.
effects on grooming, escape behavior, mice 4405.
- Oxytricha bifaria**,
activity patterns, swimming, motility 3028.
- Oziotephusa senex**,
diel variations, metabolism, polysaccharides, activity patterns 749.
- Ozius verreauxii**,
predatory behavior, *Gastropoda*, Panama Gulf 264.
- Pacemakers**,
transplantation, circadian rhythms, locomotor activity, *Acheta domesticus* 3096.
- Pachodynerus nasidens**,
nesting behavior, mating behavior, parental behavior, reproductive strategy 2425.
- Pachycondyla**,
defense mechanisms, foaming 58.
- Pagonomyrmex rugosus**,
anti-predator behavior, foraging behavior, interspecific relationships, *Latrodectus hesperus* 2809.
- Paguridae**,
habitat selection, shells morphology, environmental factors 424.
- Pagurus**,
food organisms, diets, Cancer irritans, Canada, Nova Scotia Coast 2605.
habitat selection, shells morphology, environmental factors 424.
- Pagurus bernhardus**,
visual communication, agonistic behavior, resources 2251.
- Pagurus geminus**,
activity patterns, tidal rhythm, littoral zone 3770.
- Pagurus granosimanus**,
adaptations, environmental stress, photophobotaxis, aggregation 2771.
- Pagurus hemphilli**,
adaptations, environmental stress, photophobotaxis, aggregation 2771.
- Pagurus hirsutiusculus ventrensis**,
adaptations, environmental stress, photophobotaxis, aggregation 2771.

- Pagurus prideaux**, intraspecific relationships, agonistic behavior 3442
- Pagurus samuelis**, adaptations, environmental stress, photophobotaxis, aggregation 2771
- Pala**, effects on walking, locomotor activity, horses 4454
- Pain**, escape behavior, avoidance learning, habituation, rats 3976
- Pain perception**, avoidance behavior, capsaicin effects on, rats 4356
- Pain perception**, copulation, brain opioids, rats 3123
- Pain perception**, endorphins, encephalins effects on 778
- Pain perception**, ketamine effects on, mediation, rats, mice 4332
- Pain perception**, vagina stimulation effects on, rats 857
- Pair bond**, chronology, courtship, display, vocalization, *Aix sponsa* 1315
- Pair bond**, display, sexual behavior, social behavior, *Trichoglossus* 1156
- Pair bond**, grooming, sex differences, social interactions, *Cacania roseicapilla* 3620
- Pair bond**, mating behavior, *Streptopelia risoria* 3550
- Pair bond**, reproductive behavior, aggression, *Microtus ochrogaster* 191
- Pair bond**, reproductive behavior, parental behavior, sex differences, *Delichon urbica* 163
- Pair bond**, strength, effects on breeding success 1233
- Pairing**, transfer learning, language, *Pan troglodytes* 603
- Palaeorhiza gradina**, nesting behavior, adaptations 1260
- Palatability**, diets, effects on norepinephrine feeding behavior, rats 1511
- Palatability**, food organisms, anti-predator behavior, *Blarina brevicauda*, *Hyla versicolor* 2821
- Palatability**, taste aversion learning, consummatory behavior, *insulin*, rats 1510
- Palatability**, taste perception, food intake, area postrema lesions effects on, rats 893
- Paleoecology**, behavior, indicators, trace fossils, marine organisms 3852
- Paleoecology**, diets, effects on dental enamel morphology, *Didelphis marsupialis*, *Sivapithecus* 389
- Paleoecology**, vocalization behavior, phylogeny, geographical distribution, *Colubus badius* 2313
- Paleontology**, locomotion, tool use, man 3855
- Pallium**, ablation, effects on thermoregulatory behavior, *Anolis carolinensis* 461
- Palmacorix nana**, body weight effects on homosexual behavior, males 1239
- Palmacorix nana**, undulation, courtship, mounting behavior, copulation 2400
- Pan**, delayed response, preferences, multiple choice 618
- Pan**, recognition, self-stimulation 602
- Pan paniscus**, feeding behavior, diets, autecology, *Zaire* 3762
- Pan paniscus**, social organization, social behavior 3651
- Pan troglodytes**, chemical communication, pheromones, vagina secretions 3439
- Pan troglodytes**, cognitive ability, mathematics 2982
- Pan troglodytes**, communication, symbols, language 50
- Pan troglodytes**, concept learning, mathematics, proportion, number 1804
- Pan troglodytes**, copulation, mate selection 3581
- Pan troglodytes**, feeding behavior, cannibalism, infants 3765
- Pan troglodytes**, feeding behavior, food organisms, tool use, *Pseudocanthotermes spiniger* 3760
- Pan troglodytes**, maternal behavior, mother-offspring interactions 3606
- Pan troglodytes**, mother-offspring interactions, ontogeny, social behavior, play 1628
- Pan troglodytes**, nest building, population studies, seasonal variations, habitat, *Equatorial Guinea*, *Senegal* 3867
- Pan troglodytes**, social behavior, feeding behavior, *Guinea*, *Bossou* 3638
- Pan troglodytes**, social organization, feeding, economics 250
- Pan troglodytes**, tool use, sex differences 2244
- Pan troglodytes**, transfer learning, pairing, language 603
- Pan troglodytes troglodytes**, teeth, mastication, anterior dental microwear, diets, feeding behavior 4437
- Panama Coast**, Caribbean Sea, territorial behavior, mating behavior, social behavior, *Halichoeres maculipinna* 341
- Pancreas**, feeding behavior, *Huso huso*, *Acipenser ruthenus* 334
- Pandalus kessleri**, feeding behavior, rhythms, diurnal variations, *Japan Sea*, *Peter the Great Bay* 4130
- Pandemis beparana**, diurnal variations, flight patterns 1084
- Pandemis beparana**, flight activity, diurnal variations 684
- Pandion haliaetus**, feeding behavior, marine environment 2730
- Pandion haliaetus**, nests, site selection, *USA*, *Wyoming*, *Yellowstone Park* 2844
- Panopeus herbstii**, predation, *Mercenaria mercenaria* 261
- Pantala flavescens**, flight activity, slope soaring behavior, aerodynamic properties, energy expenditure 3033
- Panthera leo**, competitive behavior, cooperation, kin selection 3829
- Panthera leo**, predators, anti-predator behavior, death shamming, *Hyena brunnea* 3832
- Panthera leo**, vocalization behavior 3432
- Panthera onca**, vocalization behavior 3432
- Panthera pardus**, vocalization behavior 3432
- Panthera tigris**, vocalization behavior 3432
- Panting**, thermoregulatory behavior, dogs 493
- Panulirus cygnus**, migrations, aggressive behavior, predator-prey interactions, predators, *Octopus* 1187
- Panulirus longipes**, auditory perception, alarm behavior 3066
- Panurus biarmicus**, diets, food availability, habitat 2698
- Papio**, agonistic behavior, dominance, breeding success, males 2377
- Papio**, food intake, somatostatin effects on 1033
- Papio**, operant conditioning, cardiac conditioning, blood pressure 1712
- Papio**, pentobarbital effects on visual threshold, auditory threshold 2171
- Papio**, social organization, feeding, economics 250
- Papio**, social organization, social hierarchy, spatial distribution 2591
- Papio anubis**, drugs, 1,1,1-trichloroethane, effects on matching-to-sample 4395
- Papio anubis**, visual perception, optical illusions 4091
- Papio cynocephalus**, aggression behavior, rearing, mother-offspring interactions deprivation 3461
- Papio cynocephalus**, methodology, operant conditioning, training, blood pressure, self-assessment 1098
- Papio cynocephalus**, nutrition effects on maturation, reproductive behavior, growth rate 2923
- Papio cynocephalus**, social interactions, adults males, infants 1389
- Papio cynocephalus**, social interactions, spatial distribution, sex differences, age effects, protection 248
- Papio cynocephalus**, social organization, population structure, *Tanzania* 1381
- Papio cynocephalus**, social organization, spatial distribution, males 1228
- Papio hamadryas**, teeth, mastication, anterior dental microwear, diets, feeding behavior 4437
- Papio ursinus**, males, offspring, parental behavior, effect 213
- Papio ursinus**, parental behavior, adoption 2554
- Papio ursinus**, sexual behavior, social environment, mating, on, arousal 1340
- Papio ursinus**, social behavior, learning behavior, feeding behavior 1382
- Papio ursinus**, social organization, subroosting, seasonal variations, *South Africa*, *Sukkerboord* 3647
- Para-fascicular region**, lesions, maze learning, memory, rats 3197
- Paracentrotus lividus**, grazing, locomotion, environmental effects 274
- Parachironomus forceps**, feeding behavior, larvae, predation, eggs, ponds, *Ambystoma maculatum*, *Canada*, *Quebec* 320
- Paracryphononx africanus**, parasites, host searching behavior, oviposition 3795
- Paradisaea decora**, display, feathers, plumage, social hierarchy 44
- Paramecium**, chemokinesis, swimming 2993
- Paramecium**, locomotion, functional morphology, cilia 3031
- Paramecium aurelia**, ecology, population regulation, interspecific relationships, killer trait, *USA*, *Indiana* 1524
- Paramecium caudatum**, cell density effects on thermotaxis 1834
- Paramecium caudatum**, predation, imprinting, *Homalozoon vermiculare* 265
- Paramecium tetraurelia**, predation, imprinting, *Homalozoon vermiculare* 265
- Parameles nasuta**, activity patterns, rhythms, wheel running, captivity 3101
- Paramphiascella varrensis**, food preferences, feeding behavior, bacteria 3660
- Paraoxon**, effects on avoidance behavior, rats 3246
- Parapatric populations**, range, territorial behavior, *Canis lupus*, *Canis latrans*, *Canada*, *Alberta* 3475
- Parasetigena silvestris**, traps, catches, oviposition 109
- Parasites**, aggregation behavior, *Megarhyssa* 224
- Parasites**, *Babesia bovis*, effects on, fecundity, oviposition, hosts, *Boophilus microplus* 1245
- Parasites**, effects on consummatory behavior, temperature perception, mice, *Toxocara canis* 413
- Parasites**, effects on dominance, males, *Heligmosomoides polygynus*, mice 1230
- Parasites**, effects on learning behavior, exploratory behavior, activity patterns, mice, *Toxocara canis* 3229
- Parasites**, exploratory behavior, silk, exposure time, diurnal variations, *Apanteles melanocelus*, *Lymantria dispar* 450
- Parasites**, host searching behavior, oviposition, *Paracryphononx africanus* 3795
- Parasites**, interspecific relationships, brood care, *Clamator jacobinus*, *Turdoides affinis* 2539
- Parasites**, migrations, survival, immunity, *Ancylostoma caninum*, mice 1125
- Parasites**, nests, hosts coevolution, *Cuculus canorus*, *Phoenicurus phoenicurus* 3814
- Parasites**, olfaction, hosts odors, *Hymenoptera*, *Dendroctonus frontalis* 2263
- Parasites**, oviposition, host specificity, *Dryinidae*, *Dichoptera hyalina*, *Eurybrachys tomentosa* 117
- Parasites**, population density, oviposition, host selection, competition 1545
- Parasites**, rearing, hosts, brood care, *Cuculus canorus* 2533
- Parasitism**, adaptiveness, copulation time, *Trichopoda pennipes*, *Nezara viridula* 1540
- Parasitism**, brood care, feeding behavior, *Regulus calendula*, *Molothrus ater* 2525
- Parasitism**, nests, egg laying, drought effects on, interspecific relationships, *Aythya americana*, *Canada*, *Alberta* 1299
- Parasitoids**, competition, population density effects on host searching behavior, *Venturia canescens* 1556
- Parasitoids**, effects on host behavior, natural selection, survival 2811
- Parasitoids**, exploratory behavior, host selection, *Anisopteromalus calandrea*, *Callosobruchus maculatus* 3361
- Parasitoids**, host searching behavior, chemical stimuli, *Musca domestica*, *Muscidifurax raptor*, *Muscidifurax raptor*, *Spalangia endius* 3784
- Parasitoids**, host searching behavior, hosts defense mechanisms, *Apanteles euphydryidis*, *Euphydryas phaeton* 2800
- Parasitoids**, host searching behavior, olfactory stimuli, hosts, *Sitona hispidulus*, *Patasson lamerei* 3496
- Parasitoids**, host searching behavior, oviposition, *Amius hesperidum*, *Encarsia opulenta*, *Aleurocanthus woglumi* 1550
- Parasitoids**, host searching behavior, oviposition, *Ascogaster reticulatus* 3492
- Parasitoids**, host searching behavior, oviposition, kairomones, eggs, *Adoxophyes*, *Ascogaster reticulatus* 3495
- Parasitoids**, oviposition, host selection, fecundity, *Euplectrus kuwanae* 1273
- Parasitoids**, survival, effects on hosts behavior, adaptiveness, *Euphydryas phaeton* 451

- Parathunnus sibi**,
visual perception, color blindness 3053
- Parathyria**,
effects on locomotor activity, avoidance learning, rats 4295.
- Paravespa vulgaris**,
feeding experience, effects on orientation, nests 2963.
- Parcobiata**,
habitat, community composition, aggressive behavior, interspecific relationships 2812.
- Pardosa laura**,
migrations, temperature preferences, reproductive behavior 2991.
- Pardosa vancouveri**,
predatory behavior, food selection, prey 2636
- Parent-offspring interactions**,
colonies, *Larus argentatus* 3590.
- Parental behavior**,
adoption, infants, *Alouatta palliata* 3605.
adoption, *Papio ursinus* 2554.
aggressive behavior, infanticide suppression, sex hormones, mice 68
altruism, families, territory, *Hyllobates klossi* 211.
anti-predator behavior, *Corvus brachyrhynchos* 2541.
breeding success, natural selection, *Lycan pictus* 2544
breeding success, reproductive strategy, mice 2543.
brood care, adaptations, protection, environmental conditions, *Euscorpis* 2516.
brood care, *Antrostomus adiabatus*, *Eudodnerus foraminatus* 1257.
brood care, broods 4496
brood care, brood-mixing, survival, *Tadorna tadorna* 2528
brood care, motivation, *Sarotherodon mossambicus* 4128
brood care, nest provisioning, *Melospiza melodia* 2537.
brood care, nesting, *Copris lunaris* 2517
brood care, *Parus major*, *Turdus merula* 3588
brood care, rearing, *Tyto alba* 2535
brood care, sex differences, *Aequidens paraguayensis* 2523.
brood rearing, dispersion, survival, juveniles, *Branta canadensis* 201
dicrotophus, pollution effects, *Sturnus vulgaris* 3586.
eggs, movements, *Anas strepera* 2542.
evolution, social behavior, reproductive behavior, seasonal variations, calandrine 507
feeding behavior, food availability, *Dendroica petechia* 3591
foraging behavior, activity patterns, females, *Desmognathus ochrophaeus* 2522.
foraging behavior, energetics, optimization, *Aves* 1479
Gorilla gorilla, books 4492.
Hydrurga leptonyx, ice floes, Antarctica Coast 1176
incubation behavior, sex hormones effects on, *Coturnix coturnix japonica* 2536.
infants development, siblings social interactions, mother-offspring interactions, *Aotus trivirgatus* 208.
interspecific relationships, parasites, *Turdoides affinis*, *Clamator jacobinus* 2539.
Larus argentatus, USA, New Jersey, Barnegat Bay 197
learning behavior, *Psittorhinus morio* 199.
males, feeding, offspring, secondary nestlings, *Dolichonyx oryzivorus* 1346.
males, tating, offspring, *Papio ursinus* 213.
maternal behavior, paternal effects, urine, chemical stimuli, *Onychomys torridus* 3594
mating behavior, nesting behavior, *Eurysternus* 3494.
mating behavior, polygyny, *Ficedula hypoleuca* 3548.
mortality, twins, sheep 3351.
mother-offspring interactions, effects on social behavior, *Microtus ochrogaster*, *Microtus pennsylvanicus* 3568.
mother-offspring interactions, partition behavior, *Cervus nippon yessoensis* 324.
neonates locomotor activity, chemical stimuli, males urine, mice 3593.
nest provisioning, feeding behavior, *Accipiter nisus* 2576.
nesting behavior, interspecific relationships, *Oenanthe picata*, *Petronia petronia* 3587
nesting behavior, males, *Ixobrychus exilis* 2534.
nesting behavior, mating behavior, reproductive strategy, *Pachodynerus nasidens* 2425.
nesting behavior, *Oceanodroma furcata*, USA, Alaska, Barren Is. 2527.
nests, spawning, *Ophiodon elongatus* 2452.
nursing, effects on hormones, *Mesocricetus auratus* 1349.
olfactory bulb ablation effects on, sex differences, rats 2026.
oviposition, social hierarchy, dominance, *Parishogaster nigricans serrei* 2891
pair bond, sex differences, *Delichon urbica* 163.
parent-offspring interactions, colonies, *Larus argentatus* 3590.
partition behavior, reproductive behavior, *Capra sibirica* 3577.
phylogeny, *Telesioi* 1345.
predatory behavior, *Tyto alba* 200.
reproductive behavior, agonistic behavior, males, *Betta splendens* 3530.
reproductive behavior, breeding success, *Branta canadensis maxima* 2456.
reproductive behavior, nesting behavior, *Ficedula zanthopygia* 2458.
role, olfactory stimuli, *Streptopelia risoria* 2524.
sex differences, evolution, *Vertebrata* 2515.
sex differences, monogamy, energetics, *Rhyncops niger* 2532.
siblings competition, *Aechmophorus occidentalis* 2526.
social behavior, dispersal, juveniles, environmental effects, habitat, *Marmota flaviventris* 239
social rank, males, mice 2547.
song, males, *Saxicola torquata* 2538
Sorex isodon 3458.
territorial behavior, food availability, *Oenanthe oenanthe*, British Isles, Wales 1347.
vocalization behavior recognition, offspring, *Gymnorhinus cyanocephalus* 2302.
- Parental care**,
effects on maturation, mice 3603.
- Paragylae**,
inhibition, amine oxidase (flavin-containing), hypothalamus, lordosis behavior, rats 4406.
- Parishogaster nigricans serrei**,
oviposition, parental behavior, social hierarchy, dominance 2891.
- Parous state**,
maternal effects, experience, maternal behavior, rats 1326.
- Partial reinforcement extinction effect**,
reinforcement schedules, acquisition, rats 1632.
- Particles**,
surface water, feeding mechanisms, neustophagia, *Podocneminae* 2660
- Partition behavior**,
groups, *Macaca mulatta*, Nepal, Kathmandu 3582.
mother-offspring interactions, *Cervus nippon yessoensis* 1324.
reproductive behavior, breeding, *Sus scrofa* 3558.
reproductive behavior, parental behavior, *Capra sibirica* 3577.
- Parulidae**,
migrations, age effects, sex differences 655.
predator-prey interactions, prey diet variations, spatial distribution, effects on foraging behavior 2690.
- Paruroctonus messensis**,
motor activity, muscles, electrical properties 826.
- Parus**,
juveniles, food organisms, selection, predatory behavior, *Accipiter nisus* 2716.
temperature, effects on foraging behavior, winter 2715.
- Parus ater**,
migrations, age composition, Switzerland 1851.
- Parus atricapillus**,
food sources, vocalization behavior, altruism 2295.
interspecific relationships, breeding sites, isolation, *Parus carolinensis* 176.
song variation, flocking behavior, conspecifics recognition 1171.
- Parus bicolor**,
feeding behavior, substrate preferences, environmental factors 367.
- Parus caeruleus**,
aggregation behavior, temperature effects, movements 229.
- Parus caeruleus**,
breeding success, competition effects on, food availability, *Parus major* 1307.
- Parus carolinensis**,
feeding behavior, substrate preferences, environmental factors 367.
interspecific relationships, breeding sites, isolation, *Parus atricapillus* 176
- Parus major**,
breeding success, competition effects on, food availability, *Parus caeruleus* 1307.
interspecific relationships, song, territorial behavior, *Fringilla coelebs*, 2290.
intraspecific relationships, dominance, competition, habitat selection 3813.
males, breeding success, song effects on 35.
parental behavior, brood care 3588.
reproductive behavior, inbreeding, population genetics, fitness 170.
song, song matching 1161.
- Parus major minor**,
feeding behavior, breeding success, nesting behavior, forests, Japan 1308.
- Parus palustris**,
hoarding behavior, aggression, territorial behavior 2701.
memory, food sources, storage 4021.
- Passer domesticus**,
attack, interspecific relationships, *Streptopelia decaocto* 2327.
cleaning behavior, seasonal variations 2848.
feeding behavior, interspecific relationships, kleptoparasitism, *Sphex ichneumoneus* 376.
food organisms, predatory behavior, *Pica pica* 2722.
food preferences, diets, *Carduelis chloris*, New Zealand, Hawkes Bay 362.
foraging behavior, flocking behavior, predators avoidance behavior 2837.
habitat preferences, nest building, urban environment 174.
nest provisioning, leaves, egg laying 3543.
- Passer montanus**,
predation, effects on abundance, *Leucoma candida* 370.
- Passerculus sandwichensis**,
vocalization behavior, song sequence, geographical variations, Canada 37.
- Passeriformes**,
anti-predator behavior, mobbing, *Circus cyaneus* 3816.
overwintering, migrations, homing behavior 3013.
social interactions, reproductive behavior, life history 177.
vocalization behavior, auditory communication, ontogeny 3403.
vocalization behavior, distress 2298.
- Passerina cyanea**,
breeding success, song mimicry 2292.
orientation, navigation behavior, behavior ecology 419.
song, memory, social interactions 1165.
- Pasture**,
irrigated areas, grazing, rotation, stocking rates, body weight, sheep 414.
- Patasson lameerei**,
parasitoids, host searching behavior, olfactory stimuli, hosts, *Sitona hispidulus* 3496.
- Patella**,
activity patterns 744.
Patella silvatica,
traps, catches, oviposition 109.
- Paternal behavior**,
incubation delay, cuckoldry defense mechanisms, *Sturnus vulgaris* 1314.
nesting behavior, brood care, *Gasterosteus aculeatus* 3584.
reproductive behavior, polygamy, *Mimus polyglottus* 3552.
- Paternal effects**,
locomotor activity, neonates, mice 3883.
urine, chemical stimuli, maternal behavior, *Onychomys torridus* 3594.
- Patiria pectinifera**,
feeding behavior, stimulants, food preferences 277.
- Patteras**,
hibernation, laboratories, rearing, *Eliomys quercinus* 1943.
locomotion, gait, energy conservation, horses 697.
mating behavior, sex hormones, ablation, olfactory bulb, rats 1328.
reinforcement schedules, food, cognitive ability, extrapolation, rats 1677.
sound production (biological), diurnal variations, *Glossina morsitans* 6.
visual perception, cortex, models 1074.
- PCB**,
effects on locomotor activity, *Macaca mulatta* 4326.
intrauterine exposure, effects on avoidance learning, mice 3260.
- Pecking behavior**,
consummatory behavior, learned response, operant response, stimulus control, auto-shaping, pigeons 1647.
social bonds, multiple schedule, juveniles, ducks 1672.
- Pecten ziczac**,
escape behavior, nervous system physiology 816.
- Pectinophora gossypiella**,
mating behavior, sex pheromone habituation effects on 21.
- Pediocetes phasianellus**,
auditory communication, vocalization 1170.
reproductive behavior, auditory communication, reproductive isolation, sympatric

- Pedioecetes phasianellus**, (continued)
populations, *Tympanuchus cupido* 2288
- territorial behavior**, lek behavior, males 2358
- Pelecatus occidentalis occidentalis**,
nesting, reproduction, colonies 2531
- Pelma truncatula**,
feeding behavior, life cycle, larvae, *Cylindrospermum* 1401
- Pelomedusa subrufa**,
courtship, mating behavior 3526
- Pemoline**,
stereotyped behavior, self-injury, drug effects, rats 4476
- Pensacus monodon**,
feeding behavior, diets, seasonal variations 3659
- Pensacus vannamei**,
burrowing organisms, activity patterns, rhythms, nyctineral rhythms, Mexico Coast 746
- Pentastomidae**,
thermoregulatory behavior, posture, environmental factors 3780
- Pentatomidae**,
sexual behavior, exocrine glands secretion 131
- Pentazocine**,
drug effects, cerebrum serotonin levels, rats 944
- Pentobarbital**,
discriminative stimuli, discrimination learning, pigeons 3226
- Pentobarbital**,
effects on conditioned response, multiple schedule, rats 2124
effects on conditioned response preservation, maze learning, rats 2106
effects on novelty fear, rats 2128
effects on visual threshold, auditory threshold, Papio 2171
responsiveness, punishment, pigeons 2109
- Pentobarbitone**,
discrimination learning, diazepam, benzodiazepine antagonists, Ro 15-1788, rats 4359
drugs, discrimination learning, rats 1010
effects on matching-to-sample, pigeons 4349
effects on operant conditioning responsiveness, statistical analysis, rats 991
effects on visual discrimination learning, rats 4354
- Peptides**,
cholecystokinin, food intake, inhibition, sheep 394
cholecystokinin, intracranial chemical stimulation, ventricle (lateral), effects on satiety, sheep 2066
effects on grooming, rats 3364
effects on locomotor activity circadian rhythms, sleep, rats 1962
MIF-1 peptides, drug effects, naloxone, drinking behavior, sex differences, rats 2156
neurotransmitters, intracranial chemical stimulation, stereotyped behavior, mice 926
pituitary, effects on short-term behavior, mice 1038
- Perca flavescens**,
temperature preferences, power plants thermal effluents, USA, Mississippi R 2825
- Perception**,
alarm behavior vocalization behavior, juveniles, domestication effects on, *Anas platyrhynchos* 508
auditory communication, mother-offspring interactions, *Mus musculus* 47
electric fields, conditioned suppression, pigeons 1915
electric fields, corticosterone plasma levels, mice 1921
electric fields, pigeons 1916
lithium effects on, memory, social behavior, *Pisces* 3222
magnetic fields, brain anatomy, pigeons 3083
magnetic fields, navigation behavior, *Thunnus albacares* 4045
magnetic fields, pigeons 735
ontogeny, neonates, dogs 2919
orientation, feeding, aquatic environment, *Aves* 4054
- Perching behavior**,
strains, genetic variance, selection, chickens 3338
- Perdis perdis**,
survival, food preferences, habitat preferences, agricultural land, wildlife management 479
- Perfluorocarbons**,
olfactory perception, odor thresholds, rats 4111
- Performance**,
appetitive conditioning, operant conditioning, dopamine effects on, mice 611
autoshaping, metaknowledge, pigeons 3906
avoidance learning, amnesia, circadian rhythms phase shift effects on, rats 615
avoidance learning, dopamine receptors sensitivity effects on, rats 978
avoidance learning, escape behavior, sensitivity effects on, rats 1723
avoidance learning, genetic factors, neurons anatomy, mice 1587
cognitive ability, iron deficiency, discrimination learning, rats 909
delayed response, cortex (prefrontal) lesions effects on, rats 593
discrimination learning, early experience effects on, rats 593
discrimination learning, sound, pigeons, *Agelaius phoeniceus*, *Molothrus ater* 1771
discrimination learning, transfer learning, rats 4001
escape learning, *Bufo arenarum* 362
learning behavior, carbon monoxide effects on, intrauterine exposure, rats 1608
learning behavior, early experience effects on, rats 600
matching-to-sample, intertrial interval effects on, short term memory, pigeons 607
operant conditioning, fixed interval schedule, rats 3931
operant conditioning, stereotyped behavior, alcohol effects on, rats 4334
operant conditioning, toxic immobility effects on, *Gallus gallus* 1123
spatial maze learning, rats 1786
taste aversion learning, age effects on, preexposure, rats 3984
variable interval schedule, matching, models 1065
visual discrimination, cortex ablation effects on, rats 907
- Pergolide**,
effects on sexual behavior, males, rats 4319
- Periaqueductal grey area**,
lesions, taste aversion, drug effects, morphine, rats 3186
- Perineuris brevicirrus**,
food organisms, chemical stimuli, feeding behavior, *Chrysophrys major* 3689
- Periodicity**,
diurnal variations, flight activity, traps, *Tortricidae* 1084
diurnal variations, spawning behavior, *Labridae* 2451
feeding behavior, diets, *Oncorhynchus kisutch*, *Salmo gairdneri* 345
- Periodicity**, (continued)
feeding behavior, metabolism effects on, rats 1509
feeding behavior, *Oncorhynchus kisutch*, *Salmo gairdneri* 2669
flight activity, seasonal variations, *Odonata* 2786
migrations, environmental effects, *Anguilla australis*, *Anguilla dieffenbachii*, New Zealand 650
pheromone emission, sex pheromone, *Lymantria dispar* 2260
- Periophthalmodon schlosseri**,
territorial behavior, dominance, mangrove swamps 2352
- Periophthalmus**,
territorial behavior, dominance, mangrove swamps 2352
- Periophthalmus koereuteri**,
feeding behavior, functional morphology, physiology 336
- Peripheral nervous system**,
acetylcholine receptors, phencyclidine effects on, motor activity, rats 4342
depolarization, drug effects, activity patterns rhythms, *Felis* 840
- Periplaneta americana**,
circadian rhythms, activity patterns, physiology 3095
circadian rhythms, locomotor activity, running, photoperiods effects on 752
drug effects, cycloheximide, puromycin, avoidance learning, retention 2075
escape behavior, walking, neurophysiology 1977
males, chemotaxis, sex pheromone, orienting response 1843
pheromones, chemical communication, social behavior 2269
sex pheromone, attraction, orientation, males 2999
synthetic sex pheromone, effects on orientation 2256
walking, escape behavior, mechanical stimuli discrimination, escape behavior 1906
- Perisphaerus**,
maternal behavior, mother-offspring interactions, feeding, nymphs 1343
- Perochirus articulatus**,
sexual reproduction, habitat preferences, Guam 2442
- Perodicticus potto**,
walking, activity patterns 1876
- Perognathus longimembris**,
predation, food selection, *Gambelia wislizeni*, USA, Nevada, Churchill Co. 3681
- Peromyscus**,
digging behavior, activity patterns, substrate preferences 1573
- Peromyscus leucopus**,
aggressive behavior, prolactin effects on 2333
huddling, thermoregulatory behavior, energetics 3828
males, reproductive behavior effects on population regulation, USA, Massachusetts, Muskeget Island 481
ontogeny, olfactory perception, odors, nests 3876
social behavior, siblings recognition 3634
- Peromyscus maniculatus**,
activity patterns, weather effects on, Canada, Quebec 483
diets, food preferences, seasonal variations 2748
dominance, social rank, effects on breeding success, copulation 1332
habitat preferences, activity patterns, ecological distribution, forests 488
habitat selection, population density, dispersal, colonization, intraspecific relationships, Canada, British Columbia, Mandarte I. 90
mice, copulation, latency, cages, space effects 1322
sexual behavior, castration effects on, males 3323
- Peromyscus polionotus**,
mate selection, social organization, genetic factors 183
- Persectania ewingii**,
migrations, flight activity, radar, Australia, Bass Strait 1835
- Pest control**,
attractants, aggregation behavior, *Monochamus alternatus* 1134
biological control, interspecific relationships, competition 439
kairomones, prey, *Ambyseus fallacis*, *Phytoseulus macropilis* 1901
taste aversion, 3,5-dimethyl-4-(methylthio) phenol methylcarbamate, crop fields, *Aves* 4445
toxins, avoidance behavior, *Rattus rattus* 2213
- Pesticides**,
carbaryl, pollution effects, ventilatory behavior, *Macropodus cupanus* 3807
- Pesticides (organochlorine)**,
chlordimeform, effects on schedule-induced behavior, pigeons 3224
endrin, effects on locomotor activity, central nervous system, rats, hamsters 951
- Pesticides (organophosphorus)**,
dicrotophos, pollution effects, parental behavior, breeding success, *Stumus vulgaris* 3586
- Pests**,
effects on activity patterns, livestock, *Haematobia irritans* 2209
feeding, effects on avoidance behavior, grazing, cattle, *Musca autumnalis* 4453
light effects, colonization, crop protection barriers, behavior, *Myzus persicae* 1410
- Petroica australis**,
feeding behavior, food storage 360
- Petroica australis australis**,
foraging behavior, activity patterns, islands 3860
- Petrolisthes erlomerus**,
feeding behavior, food consumption, filter feeders 3664
- Petronia petronia**,
interspecific relationships, nesting behavior, parental behavior, *Oenanthe picata* 3587
- Peucedramus taeniasus**,
competition, feeding behavior, food availability, guilds, USA, Arizona 363
- Phaethon superciliosus**,
feeding behavior, competition, Tridona, Costa Rica 1522
- Phalacrocorax auritus**,
nesting behavior, coexistence, *Ardea herodias*, USA, Montana 2461
- Phalacrocorax carbo**,
cleptoparasitism, feeding behavior, aggressive behavior, *Sula bassana*, British Isles, Strathclyde 3864
- Phalaropus fulicarius**,
sex differences, spatial distribution, overwintering 3812
- Pharmacokinetics**,
natriadol hydrochloride, effects on activity patterns, rats, dogs 2097
- Pharmacology**,
avoidance learning, nutrient deficiency, thiamine, folic acid, rats 573
behavior, reviews 4417
drug effects, kainic acid, brain, hippocampus, lesions, locomotor activity, exploratory behavior, rats 901
drug effects, quantitation 2070

- Pharmacology, (continued)**
 drug effects, reviews 2073.
 drug self-administration, noninvasive, rats, drug abuse man 2095
 fighting, drugs, shock, benzodiazepine, mice 77.
 neurophysiology, drugs, measuring techniques, *Macaca mulatta* 1096.
- Phase shift,**
 circadian rhythms, effects on amnesia, avoidance learning performance, rats 615.
 effects on avoidance behavior, circadian rhythms, mice 3103.
- Phasmas colchicus,**
 approach behavior, avoidance behavior, novelty 2205.
 food organisms, predation, feeding behavior, *Accipiter gentilis*, Sweden 1480.
- Phaenidae,**
 walking, coordination 682.
- Phaenole,**
 food organisms, predation efficiency, *Macrodon quinquefasciatus* 1435.
- Phencyclidine,**
 behavior, drug effects, dopamine, haloperidol, apomorphine, rats 1012.
 drug effects, chronic effects, locomotor activity, age, juveniles, rats 1008.
 effects on acetylcholine receptors, mechanisms, rats 4342.
 effects on aggressive behavior, shock, rats 2102.
 effects on avoidance learning, monkeys 3304.
 effects on conditioned response, multiple schedule, rats 2124.
 effects on matching-to-sample, pigeons 4349.
 effects on motor activity, activity patterns, rats 2117.
 responsiveness, punishment, pigeons 2109.
 stress, effects on operant conditioning, rats 4323.
- Phenobarbital,**
 effects on locomotor activity, depression, mice 2111.
- Phenobarbitone,**
 effects on circling behavior, rats 4385.
 intransitive exposure, effects on open-field behavior, activity patterns, mice 3245.
 prenatal experience, effects on activity patterns, mice 1609.
- Phenol,**
 pollution effects, learning behavior, courtship, *Poecilia reticulata* 3804.
- Phenology,**
 birds of prey, *Bavaria*, census 1229.
 food availability, diets, feeding behavior, *Colobus badius rufonotatus* 2765.
 morphology, behavior, *Apis mellifera*, seeds, *Trifolium repens* 1544.
- Phenothiazines,**
 drug effects, conditioned response, fixed interval schedule, pigeons 2076.
- Phenotypes,**
 conditioning, central excitatory state, hybrids, genetics, *Phormia regina* 2881
 dominance, social hierarchy, cattle 1377.
 pleiotropy, preferential behavior, color, genetics, *Coturnix coturnix japonica* 1584.
- Phenylbenzamine,**
 effects on alcohol locomotor activity induction, mice yohimbine, effects on alcohol locomotor activity induction, mice 967.
 shock, foot shock, jumping, neurophysiology, rats 852.
- Phenylalanine,**
 effects on asymmetry, cerebral dominance, rats 3169.
- Phenylketonuria,**
 effects on learning behavior, rats 1960.
- Phenyletane,**
 effects on emotional behavior, shock 1020
 effects on operant response, fixed ratio schedule, pigeons 4383
- Pheromone emission,**
 calling behavior, *Pseudaletia unipuncta* 2276.
 maternal pheromone, hyperphagia, lesions, hypothalamus (ventromedial), rats 2025
 sex pheromone, males response, *Brachymeria lasus* 1138.
 sex pheromone, neurophysiology, *Lymantria dispar* 3138.
 sex pheromone, periodicity, *Lymantria dispar* 2260.
- Pheromone traps,**
 attractants, *Trichoplusia ni*, sex pheromone, *Scirtes orbiculatus* 1836.
 behavior response, threshold limits, males, *Grapholitha molesta* 15.
 methodology, flight activity measuring techniques, Tortricidae 684.
- Phorassom,**
 attractancy, androstenol, man 3438.
 attractancy, conspecifics, *Aponomma hydrosauri* 3376.
 attraction, interspecific relationships, *Dendroctonus brevicornis*, Ips
paraconfusus 1135.
 behavior response, threshold limits, males, *Grapholitha molesta* 15.
 biochemical analysis, synergism, chemotaxis, predator-prey interactions.
Thanasimus formicarius, Ips typographus, *Thanasimus femoralis* 635.
 chemical communication, chemoreception, *Hyalomma dromedarii* 2279.
 chemical communication, food sources, recruitment, *Tetramorium impurum* 1150.
 chemical communication, insects 1148.
 chemical communication, insects 2259.
 chemical communication, *Procambarus clarkii* 1.
 chemical communication, social behavior, *Periplaneta americana* 2269
 chemical communication, vagina secretions, Pan troglodytes 3439.
 chemical composition, sex pheromone, *Malacosoma disstria* 17.
 chemotaxis, attractancy, sex differences, *Trichinella spiralis* 1528.
 communication, social interactions, reproductive behavior, conferences 4499.
 conspecific odors, recognition, chemical communication, social behavior, *Tamias*
stratus 3425.
 dispersion, effects on larvae, intraspecific relationships, *Blattella germanica*
 26.
 effects on males activity patterns, interspecific relationships, *Dictyoploca*
japonica, *Philosamia cythia* 1145.
 enantiomers, attractancy, *Dendroctonus frontalis* 2261.
 licking behavior, conspecifics, *Sceloporus occidentalis biserialis* 3614.
 mandibular glands, olfactory stimuli, *Myrmica* 2270
 Nasoon gland, attractancy, workers, *Apis mellifera* 2262.
 olfactory communication, aggressive behavior, reproductive behavior, *Sus scrofa*
 3437.
 olfactory perception, electroantennograms, *Ostrinia nubilalis* 1904
 olfactory perception, strains, effects on behavior, *Trogoderma granarium* 23.
 oviposition deterrents, hosts plants, *Hylemyia* 112.
 oviposition deterrents, intraspecific relationships, *Rhagoletis basiola* 1130.
 oviposition deterrents, population density, *Atherigona soccata* 1252.
 polythetic behavior, foraging behavior, recruitment, defensive behavior,
Nasutitermes corniger 2278.
 production regulation, chemical composition, *Apis mellifera* 8.
 queens, effects on castes, social behavior, *Apis mellifera* 1363.
- Pheromones, (continued)**
 queens, effects on swarming behavior, *Apis mellifera* 217.
 recognition, nests incompatibility, colonial characteristics, *Pseudomyrmex*
ferruginea 3380.
 reproductive behavior, sexual receptivity, *Thamnophis sirtalis parietalis* 2444.
 response, sexual behavior, bioassays, males, *Dioryctria amatella* 115.
 sensitivity, bioassays, *Solenopsis invicta* 27.
 sensory stimuli, feeding behavior, spawning, *Clupea harengus pallasi* 1296.
 swarming behavior, aggression, workers, *Atta*, *Acromyrmex* 2558.
 territorial behavior, conspecifics recognition, aggressive behavior, *Plethodon*
cinerus 2320.
 vision, effects on mating behavior, *Heliothis zea* 2393.
 visual stimuli, mating behavior role, *Heliothis zea* 3511.
 workers recruitment, foraging behavior, *Myrmica rugulosa* 2645
- Phialidium gregarium,**
 feeding behavior, swimming behavior 2626.
- Phidippus femoratus,**
 male selection, courtship 2386.
- Phidippus johnsoni,**
 mating behavior, sexual selection 269.
- Philaetia canadica,**
 nesting behavior, egg production, sexual reproduction, USSR 3537.
- Philaethus barbatus,**
 nesting behavior, territorial behavior, aggregation behavior 3611.
- Philosamia cythia**
 males activity patterns, pheromones effects on, interspecific relationships,
Dictyoploca japonica 1145.
- Phoca hispida,**
 marine environment, population dynamics, wind, seasonal variations, habitat, ice,
 social behavior, territorial behavior, Baffin I. 484
- Phoca vitulina,**
 movements, haulout behavior, radio-tagging, Alaska Gulf 3023.
- Phocoena phocoena,**
 sleep, EKG, EEG, swimming 3109.
- Phoebis sennae,**
 migrations, weather, synoptic-scale wind systems 3007.
- Phoenicurus ochurus,**
 mating behavior, breeding 2475.
- Phoenicurus phoenicurus,**
 hosts, coevolution, nests parasites, *Cuculus canorus* 3814.
- Phonotaxis,**
 landing behavior, orientation, *Scapteriscus acletus* 1905.
 song, aggregation behavior, *Gryllus integrus*, *Gryllus veletis*, *Teleogryllus*
oceanicus 3463.
- Phormia regina,**
 chemoreceptors, wings, feeding behavior, electrophysiological recording 1902.
 feeding behavior, chemoreception, anatomy, electrophysiological recording 322.
 genetics, hybrids, conditioning, phenotypes, central excitatory state 2881
- Phormia terrestris,**
 visual perception, motion, neurophysiology 4077.
- Phosphate,**
 nutrients, effects on food intake regulation, rats 1488.
- Phosphatidyl choline,**
 diets, effects on avoidance learning, mice 3120.
- Photokinesis,**
 activity patterns, habitat preferences, *Tribolium castaneum*, *Tribolium confusum*
 1548.
 circadian rhythms, *Bulinus africanus* 4135.
 light, effects on locomotor activity, *Tribolium castaneum*, *Tribolium confusum*
 3001.
- Photoperiod,**
 circadian rhythms, locomotor activity, lutropin plasma levels, hamsters 3105.
 circadian rhythms, oviposition, *Ostrinia nubilalis* 4133.
 circadian rhythms, photoreceptors, reviews, Invertebrata 4149.
 effects on food intake, hamsters 3747.
 effects on wheel running circadian rhythms, mice 4139.
 entrainment, locomotor activity, circadian rhythms, *Pterostichus nigrita* 3098.
 feeding behavior, energetics, chickens 3722.
 feeding behavior, *Locusta migratoria* 3676.
 flight activity, circadian rhythms, *Culex pipiens quinquefasciatus* 4132.
 sexual reproduction, hibernation, annual cycles, rhythms, *Eutamias amoenus*,
Eutamias minimus 3102.
 sleep, rats 4145.
 sleep (REM) deprivation, meal feeding, rats 769.
 thermoregulatory behavior, *Lacerta viridis* 3798.
- Photoperiods,**
 annual cycles, sexual reproduction, gonads, *Ploceus philippinus* 169.
 circadian rhythms, drug effects, librium, wheel running, rats 1938.
 circadian rhythms, locomotor activity, *Limax maximus*, *Limax flavus* 747.
 circadian rhythms, males, testicular recrudescence, *Carpodacus erythrurus* 1937.
 circadian rhythms, physiology, environmental conditions, entrainment, seasonal
 variations, *Coeus plumbeus* 1935.
 circadian rhythms, swimming, activity patterns, juveniles, *Oncorhynchus gorbuscha*
 756.
 diel variations, circadian rhythms, sexual behavior, oviposition, *Culex*
quinquefasciatus 1237.
 diel variations, mating behavior, *Chilo suppressalis* 1274.
 effects on drinking behavior, activity patterns, circadian rhythms, hamsters
 1940.
 effects on food consumption, circadian rhythms, rats 1513.
 effects on juveniles vertical migrations, *Melodogyne* 621.
 effects on locomotor activity, running, circadian rhythms, *Periplaneta americana*
 752.
 effects on reproduction, annual cycles, *Callorhynchus ursinus* 1318.
 environmental effects, locomotor activity, flight activity, *Locusta migratoria*
migratorioides 1547.
 feeding behavior, diurnal variations, Anser 1465.
 reproductive behavior, egg laying, photoperiods, sex hormones, crowding, *Lagopus*
lagopus 178.
 rhythms, seasonal variations, grooming, lesions, pons, rats 1939.
 sexual behavior, pineal body, daylength, *Mesocricetus auratus* 1384.
- Photophobotaxis,**
 adaptations, environmental stress, coexistence, *Pagurus samuelis*, *Pagurus*
hirsutissimus venturinus, *Pagurus granosimanus*, *Pagurus hemphilli* 2771.
- Photoreceptors,**
 brain, reviews 4148.

Photoreceptors, (continued)

- circadian rhythms, locomotor activity, *Alligator mississippiensis* 753
- circadian rhythms, photoperiod, reviews, *Invertebrata* 4149
- circadian rhythms, reviews, *Vertebrata* 4163
- circadian rhythms, wheel running, light effects, *Onychomys leucogaster*, *Spermophilus lateralis* 760
- phototaxis, *Drosophila* 1884
- pineal eye, role, locomotor activity, larvae, *Xenopus laevis* 4080

Photosensitivity,

- retinol deficiency effects on, *Bombyx mori* 1842
- Phototaxis,**
 - chemotaxis, *Halobacterium halobium* 4033
 - dispersal, larvae, *Hydropsyche cockerelli*, USA, Columbia R 3004
 - escape behavior, mutants, eye pigmentation, *Drosophila melanogaster* 1838
 - geotaxis, vertical distribution, *Drosophila* 1839
 - larvae, *Hydropsyche cockerelli* 4078
 - light intensity, *Salientia* 4042
 - light wavelength effects on, *Dendroctonus pseudotsugae*, *Trypodendron lineatum* 1883
 - mutants, visual stimuli, courtship, *Drosophila melanogaster* 2876
 - photoreceptors, *Drosophila* 1884
 - retinol deficiency effects on, *Bombyx mori* 1842
 - schooling behavior, feeding, rheotaxis, larvae, *Rana heckscheri* 226
 - suppression, host plants of olfactory stimuli effects on, *Bombyx mori* 1910
 - visual stimuli, visual evoked response, escape behavior, *Microchroptera* 1892

Phoritis,

- bioluminescence, mimicry, predation, interspecific relationships 28

Phoritis luciferescens,

- courtship, bioluminescence, visual communication, neurophysiology 2274

Phoritis versicolor,

- electrical stimulation, control neurons, flashing, males 22

Phoxinus laevis,

- olfactory stimuli, olfactory perception, orientation 4108

Phoxinus phoxinus,

- conditioned response, electric currents, threshold sensitivity 3080

Phrynoscephalus mystaceus,

- stereotyped behavior, display 3394

Phrynosoma coronatum,

- social behavior, display, conspecifics, interspecific relationships, *Phrynosoma platyrhinos* 3612

Phrynosoma platyrhinos,

- food selection, predator-prey interactions, *Pogonomymex californicus*, *Pogonomymex rugosus*, USA, Nevada 1521
- social behavior, display, conspecifics, interspecific relationships, *Phrynosoma coronatum* 3612

Phthia picta,

- sexual behavior, oviposition, Brazil, Sao Paulo 2406

Phylodactylus galapagensis,

- reproductive behavior, oviposition, habitat 2447

Phylloscopus,

- vocalization behavior, song, distribution, evolution 43

Phylloscopus collybita,

- auditory communication, song recognition, sex differences 3418

Phylloscopus trochiloides,

- territorial behavior, competition, food availability, winter migrations, India 87

Phylloscopus trochilus,

- cleaning behavior, bathing 2852

Phylloscopus discolor,

- migrations, families 3863

Phylloscopus discolor,

- activity patterns, circadian rhythms, temperature effects on 3092

Phylogeny,

- courtship, recognition, conspecifics, *Drosophila nasuta* 3501
- parental behavior, *Teleostei* 1345
- vocalization behavior, paleoecology, geographical distribution, *Colubus badius* 2313

Phymetis clematis,

- aggressive behavior, dominance, intraspecific relationships, Chile 1188

Phymetis clematis,

- intraspecific relationships, aggressive behavior, body size, Chile Coast 54

Phymetis clematis,

- vocalization behavior, nest building, energetics 3802

Physical activity,

- appendages, neurophysiology, electrical properties, *Echinus esculentus* 3133
- catecholamines, pons norepinephrine, drug effects, morphine, amphetamine, rats 2142

Physical activity,

- circadian rhythms, sheep 763
- cortex ablation, age effects, rats 1956
- diurnal variations, resting behavior, environmental effects, *Diptera* 2787
- feeding behavior, wading, *Chettusia leucura* 3861
- feeding behavior, winter, *Pseudemys carolina*, USA, South Carolina, Par Pond 3683
- food intake, sex differences, rats 3758
- intracranial chemical stimulation, hippocampus (dorsomedial), thyrotropin-releasing hormone, *Citellus lateralis* 2063
- limbs, drug effects, pilocarpine, cats 2155
- locomotion, drug effects, morphine, conditioning, rats 950
- seasonal variations, *Brachytripes megacephalus*, Sicily 2782
- vibratory stimuli, behavior response, *Argiope aurantia* 3065

Physical characteristics,

- release factors, copulation, *Plodia interpunctella*, *Cadra cautella*, *Anagasta kuehniella* 124

Physical properties,

- habitat preferences, territorial behavior, *Dendragapus obscurus* 2360

Physiology,

- activity patterns, circadian rhythms, *Periplaneta americana* 3095
- bioluminescence, nervous system, *Chaetopterus* 813
- cardiovascular system, fighting, defensive behavior effects on, cats 75
- correlation, social behavior, energy utilization, *Ovis canadensis canadensis* 3627
- cortex, nervous system, motor activity, hand, monkeys 875
- effects on feeding behavior periodicity, rats 1509
- electric perception, electrolocation, object perception, *Apterontus albifrons* 3071
- enzymes, histochemistry, brain, *Eptatretus burgeri* 831
- feeding behavior, correlation analysis, methodology, rats 401

Physiology, (continued)

- feeding behavior, functional morphology, *Periophthalmus koelreuteni* 336
- food availability, grazing, *Connochaetes taurinus* 2739
- hormones, effects on satiety 254
- mechanisms, convulsions, running, mice 4070
- 3,4-methylenedioxymphetamine, 2,4,5-trimethoxymphetamine, N,N-dimethyltryptamine, psilocybin effects on, monkeys 1022
- nervous system, escape behavior, *Pecten ziczac* 816
- photoperiods, circadian rhythms, environmental conditions, entrainment, seasonal variations, *Coccyzus plumbeus* 1935
- reflexes (gill-withdrawal), ontogeny, *Aplysia californica* 2905
- vision, visual perception, *Rana esculenta* 828
- visual stimuli, vision, contrast sensitivity 702
- Physonectae,**
 - feeding behavior, diel variations, Sargasso Sea, USA, Washington Coast 278
- Physostomine,**
 - drug effects, discrimination learning, cues, rats 1006
 - drug effects, yawning behavior, neurons, mechanisms, rats 848
- Physostomus macropilis,**
 - predatory behavior, prey kairomones effects on, *Tetranychus urticae* 1901
- Physostomus persimilis,**
 - feeding behavior, nutrient requirements effects on, food sources population density, age effects 284
 - feeding behavior, predation, food sources population density effects on, larvae 283
 - food availability, feeding behavior 1399
 - predator-prey interactions, population density, predators, effects on food consumption, predatory behavior 2607
 - predatory behavior, population density, spatial distribution, prey 2606
 - predatory behavior, predator-prey interactions, spatial distribution, prey 2608
- Pica pica,**
 - nesting behavior, reproductive behavior, mate guarding 2476
 - predatory behavior, food organisms, *Passer domesticus* 2722
- Picoides borealis,**
 - feeding behavior, substrate preferences, environmental factors, sex differences, seasonal variations, USA, South Carolina 366
 - home range, winter, nests, social interactions, intercan pressure 1222
- Picoides pubescens,**
 - feeding behavior, substrate preferences, environmental factors 367
- Picoides villosus,**
 - foraging behavior, commensalism, *Dryocopus pileatus* 2727
- Picrotoxin,**
 - effects on avoidance behavior, locomotor activity, rats 4352
- Pieris protodice,**
 - courtship, mate selection, discrimination, age, body size 2397
- Pieris rapae,**
 - sodium requirements, sex differences, mud feeding 2632
- Pieris rapae crucivara,**
 - hosts, discrimination, oviposition experience, *Apanetes glomeratus* 3504
- Piezodorus guildinii,**
 - dispersal, nymphs, legumes, *Nezara viridula*, Brazil 438
- Pigeons,**
 - adjunctive behavior, reinforcement schedules, schedule-induced behavior, attack 1688
 - aggressive behavior, scheduled reinforcement, strains 1199
 - amphetamine effects on schedule-induced behavior 4278
 - autoshaping, blocking 1656
 - autoshaping, blocking, interstimulus interval 3920
 - autoshaping, choice, operant response 3915
 - autoshaping, classical conditioning, conditioned inhibition, transfer learning 2931
 - autoshaping, classical conditioning, CS, reinforcement, extinction, recovery 537
 - autoshaping, conditioned inhibition 564
 - autoshaping, discrimination learning, reinforcement, signals, food 1655
 - autoshaping, metaknowledge 3906
 - autoshaping, pretraining effects, reinforcement 1651
 - autoshaping, reinforcement schedules 2934
 - autoshaping, reinforcement schedules 2935
 - autoshaping, reinforcement, withdrawal, novelty stimuli, reinstatement 3894
 - autoshaping, response, duration, automaintenance 1668
 - autoshaping, vision, psychophysics 1657
 - behavioral contrast, reinforcement magnitude, variable interval schedule 539
 - chain schedule, acquisition, drug effects, antagonism 3280
 - chain schedule effects on responsiveness 538
 - chain schedule, preferences, signals, reinforcement, operant response, choice learning 1671
 - chain schedule, reinforcement schedules, serial learning, simultaneous conditioning 1669
 - chlorpromazine effects on conditioned reinforcement, observing response 3300
 - classical conditioning, CS, UCS, conditioned response 3908
 - classical conditioning, methodology, initiating membrane response conditioning 2197
 - concurrent chain schedule, operant response 3917
 - concurrent schedule, variable time schedule, matching, fixed-ratio change-over 1652
 - conditioned reinforcement, schedule, stimuli effects on conditioned response 1663
 - conditioned reinforcement, stimuli duration, concurrent schedule 1773
 - conditioned reinforcement, stimuli, information content 3913
 - conditioned response, reinforcement schedules, second-order schedule 1759
 - consummatory behavior, learned response, operant response, pecking behavior, stimulus control, autoshaping 1647
 - cues, memory, forgetting, delayed response, matching-to-sample 1808
 - delayed response, changeover delay, reinforcement schedules, variable interval schedule, discrimination learning 1670
 - delayed response, matching-to-sample, proactive interference, memory, forgetting 1815
 - discrimination learning, duration, interstimulus interval 1774
 - discrimination learning, interference 1778
 - discrimination learning, matching-to-sample 587
 - discrimination learning, matching-to-sample, short term memory 3992
 - discrimination learning, memory, generalization 2968
 - discrimination learning, sound, performance, operant conditioning 1771
 - discrimination learning, stimuli duration effects on 589
 - discrimination learning, stimulus control, operant conditioning, classical conditioning 3921

Pigeons, (continued)

- discrimination learning, stimulus control, operant response, serial learning 1772
- discriminative stimuli, concurrent schedule, variable interval schedule, operant response, response matching, stimulus control 1673
- discriminative stimuli, pentobarbital, discrimination learning 3226
- drug effects, conditioned response, fixed interval schedule, phenothiazines 2076
- drug effects, operant response, fixed interval schedule, fixed ratio schedule 835
- drug effects, pimozide, stimulus control, fixed consecutive number schedule, dopamine 2078
- drug effects, responsiveness, punishment 2109
- drugs, cocaine, effects on memory, matching-to-sample 4283
- electric fields perception 1916
- electric fields perception, conditioned suppression 1915
- electroencephalograms, diurnal variations, light sensitivity 720
- fixed interval schedule, fixed ratio schedule, operant response, stereotyped behavior 3914
- fixed ratio schedule, reinforcement schedules 3910
- fixed ratio schedule, reinforcement schedules, timeout 1658
- food availability, reinforcement schedules, response 1665
- foraging behavior, optimization, reinforcement schedules 1650
- heart rate, vagal cardiac neuron, cardiac conditioning, neurophysiology, visual evoked response, associative learning, synergism 1981
- homing behavior, environmental factors, wind, topography 663
- homing behavior, navigation behavior, magnetic fields, storms 3018
- homing behavior, ontogeny, orientation, sun 2909
- homing behavior, orientation, disorientation, magnetic fields, dark 662
- homing behavior, orientation, environmental effects, olfaction 660
- homing behavior, orientation, navigation behavior, olfaction 3022
- interference, retention, discrimination learning 4019
- interstitial transfer, visual discrimination, Wulst ablation, telencephalon 4220
- lead effects on schedule-induced behavior, catecholamines, brain 3225
- lesions, telencephalon, operant response, feeding behavior 2013
- lithium chloride, Δ^9 -tetrahydrocannabinol effects on taste aversion learning 1719
- locomotor activity, basal ganglia lesions effects on 880
- magnetic fields, perception, brain anatomy 3083
- matching-to-sample, delayed response, interference 1664
- matching-to-sample, discrimination learning, drug effects 4349
- matching-to-sample, discrimination learning, short term memory 2987
- matching-to-sample, disruption, acquisition, reinforcement 1777
- matching-to-sample, latency, delayed response, memory 1654
- matching-to-sample, models, discrimination learning, 588
- matching-to-sample, performance, intertrial interval effects on, short term memory 607
- matching-to-sample, reinforcement, expectancy 2964
- matching-to-sample, reinforcement schedules, interference, retention 3993
- matching-to-sample, transfer learning, color 2967
- mate selection, color, feathers, feral population, age 173
- memory, forgetting, delayed response, external stimuli, matching-to-sample, external stimuli 1811
- memory, interference, discrimination learning, reversal learning, retention 1809
- memory, maze learning 1806
- memory, visual discrimination learning 4020
- morphine tolerance, operant conditioning, reinforcement schedules 4284
- multiple schedule, extinction, behavioral contrast, autoshaping 3911
- multiple schedule, reinforcement schedules 3907
- multiple schedule, response, theories 1642
- navigation behavior, homing behavior, magnetic fields 4055
- navigation behavior, homing behavior, olfactory stimuli role 4046
- navigation behavior, homing behavior, olfactory stimuli role 4047
- navigation behavior, magnetic compass 1853
- navigation behavior, magnetic fields, polarity 665
- operant conditioning, interresponse time, delayed reinforcement 3916
- operant conditioning, multiple schedule, reinforcement schedules 3919
- operant conditioning, variable interval schedule, reinforcement, visual stimuli 3909
- operant response, reinforcement schedules, extinction 3893
- operant response, response matching 1648
- operant response, serial learning, short term memory 3912
- operant response, stereotyped behavior, reinforcement schedules 3918
- orientation, homing behavior, magnetic fields 4058
- orientation, navigation behavior, homing behavior, urban environments 4056
- orientation, navigation behavior, olfaction 4049
- orientation, navigation behavior, olfactory deprivation effects on 4048
- perception, magnetic fields 735
- pesticides (organochlorine), chlordaneform, effects on schedule-induced behavior 3224
- phenytoin effects on operant response, fixed ratio schedule 4383
- problem solving, reinforcement schedules 1775
- reinforcement, fixed interval schedules, behavior modeling, measurements 536
- reinforcement magnitude, autoshaping, effects on, UCS, CS 3905
- reinforcement optimization, choice learning 1721
- reinforcement schedules, delay, preferences, reversal learning 1800
- reinforcement schedules, deprivation, water, food, orientation, temporal discrimination 1667
- reinforcement schedules, discrimination learning, stimulus duration 3994
- reinforcement schedules, food, response, memory 1660
- reinforcement schedules, food, variable interval schedule, response, behavioral contrast 1661
- reinforcement schedules, multiple schedule, conditioned response 1758
- reinforcement schedules, signals, autoshaping 2930
- reinforcement schedules, variable interval schedule, alternation learning 1662
- retention, operant conditioning, stimulus control 3904
- reversal learning, memory, conditioned response, forgetting 1814
- reversal learning, reinforcement schedules, inhibition 1801
- second-order schedule, discrimination learning 540
- serial reversal learning, discrimination learning, potentiation 2978
- short term memory, operant conditioning, multiple schedule, matching-to-sample 1812
- short term memory, stimulus control 608
- short term memory, temporal perception, variable interval schedule, matching-to-sample 1813
- spontaneous recovery, reinforcement, nonreinforcement, stimulus control 1666
- stimulus control, blocking, discrimination learning, avoidance learning

Pigeons, (continued)

- appetitive conditioning 2932
- stimulus control, discrimination learning, conspecifics, communication 1653
- stimulus control, matching-to-sample, memory, directed forgetting, delayed response, pigeons 1810
- stimulus control, multiple schedule 3991
- stimulus control, operant response, mixed schedule 1649
- stimulus control, reinforcement schedules 2933
- transfer learning, matching-to-sample, oddity discrimination learning, concept learning 4013
- visual discrimination learning, visual perception, interocular transfer 4083
- visual discrimination, visual perception 4082
- visual perception 4081
- visual perception, environmental factors 719
- visual perception, retina, visual discrimination learning 4085
- Pigmentation,**
- eye, mutants, phototaxis, *Drosophila melanogaster* 1838
- mutants, photoreceptors, phototaxis, *Drosophila* 1884
- Pigments,**
- melatonin, pineal body, circadian rhythms, protein-energy malnutrition, rats 758
- Pigs,**
- adjunctive behavior, effects on corticosteroids, plasma levels 3315
- drinking behavior, water intake 3352
- estrus, sexual behavior, glucocorticoids effects on 3314
- females, social interactions, social rank 96
- handling, stress, activity patterns 3368
- juveniles, weaning, pituitary adrenal gland, hormone release, open-field behavior, avoidance behavior 1348
- mating behavior, males, breeding, reviews 4449
- neonates, suckling behavior, teats preferences 207
- neonates, suckling behavior, teats preferences 3604
- operant conditioning, food intake, water intake, intracranial chemical stimulation, cholecystokinin octapeptide 927
- spatial distribution, dominance, social rank 3479
- stress, correlation, enzymes, serum levels, halothane 1118
- suckling behavior, olfactory stimuli role, neonates 3601
- thermoregulatory behavior, posture, size, temperature effects 495
- weaning, azaperone effects on aggression 2217
- Pilocarpine,**
- drug effects, grooming, physical activity, limbs, cats 2155
- drug effects, yawning behavior, neurons, mechanisms, rats 848
- Pimozide,**
- drug effects, acquisition, operant response, rats 2137
- drug effects, attenuation, taste preferences, self-stimulation, rats 2147
- drug effects, drinking behavior, licking behavior, rats 2123
- drug effects, food reinforcement, fixed interval schedule, ESB, rats 1929
- drug effects, stimulus control, fixed consecutive number schedule, dopamine, pigeons 2078
- effects on alcohol locomotor activity induction, mice 967
- effects on discrimination learning, Columbia 934
- effects on dopamine receptors sensitivity, avoidance learning performance, rats 978
- shock, foot shock, jumping, neurophysiology, rats 852
- Pineal body,**
- effects on drinking behavior, rats 905
- melatonin effects on thermoregulatory behavior, *Terrapene carolina triunguis* 1561
- pigments, circadian rhythms, protein-energy malnutrition, rats 758
- reproduction, annual cycles, photoperiods effects on, *Callorhinus ursinus* 1318
- sexual behavior, daylength, photoperiods, *Mesocricetus auratus* 184
- Pinnipedia,**
- auditory perception, visual perception, learning, diving behavior 2903
- Pinus,**
- food plants, seeds, feeding behavior, *Nucifraga columbiana* 369
- Pinus ponderosa,**
- extracts, effects on feeding behavior, *Ips parafuscus* 1425
- food plants, chemical stimuli, taste perception, food preferences, *Sciurus aberti* 392
- Pinus taeda,**
- host plants, extracts, effects on feeding behavior, *Dendroctonus frontalis* 1546
- Piona conglobata,**
- feeding behavior, Netherlands, Maarseveen I L. 2612
- Pipelines,**
- oil and gas industry, effects on movements, *Rangifer tarandus*, USA, Alaska 2864
- Pipilo erythrophthalmus,**
- predation, interspecific relationships, habitat preferences, *Plethodon cinereus* 2820
- territorial behavior, calling behavior, vocalization behavior 2354
- Pipilo ocal,**
- territorial behavior, calling behavior, vocalization behavior 2354
- Pipistrellus pipistrellus,**
- communication, social interactions 48
- Piribedil,**
- drug effects, aggressive behavior, sleep (REM) deprivation, rats 1005
- effects on drinking behavior, stereotyped behavior, rats 4330
- effects on, locomotor activity, social behavior, exploratory behavior, rats 939
- Pisaster giganteus,**
- feeding behavior, predator-prey interactions, *Tegula pulliga*, *Calliostoma ligatum* 2619
- Pisces,**
- aggregation behavior, sheltering behavior, marine environment, flotsam 2823
- behavior 463
- chemical stimuli, orientation, olfaction 3074
- circadian rhythms, neurophysiology, pineal organ 3099
- cleaning behavior, commensalism, *Stenopodidae* 1113
- diets, feeding behavior 2684
- escape behavior, man effects on, observation methods 2832
- feeding behavior, diets, territorial behavior, coral reefs, Japan Coast 1461
- feeding behavior, suction feeding, predation 3697
- feeding behavior, trophic levels, coral reefs, Malagasy Rep. Coast 338
- food organisms, diets, *Mustela vison*, *Lutra lutra* 2750
- lithium effects on social behavior, perception, memory 3222
- measuring techniques, methodology, visual stimuli, electrical stimuli, respiration 2196
- migrations, orientation, chemical stimuli, rheotaxis, magnetism 3010
- schooling behavior, mathematical models 1067

- Piscen, (continued)**
schooling behavior, social organization, definition 2570
swimming behavior, ultrasonics, telemetry, electronic equipment 4424
synthesis, territorial behavior, feeding behavior, coral reefs 2350
temperature preferences, thermoregulatory behavior 1563
thermoregulatory behavior, temperature tolerance, Indo-Pacific region 1562
threatening behavior, display 2322
visual discrimination, recognition, predators face, coral reefs 3809
visual perception, eye movements 1887
- Pissodes strobi,**
antifeedants, leaves, oids, Thuja plicata 2638
- Pithys albifrons,**
feeding behavior, territorial behavior, social interactions, subordination 512
- Pita,**
burrowing behavior, soil temperature, light intensity, Myrmeleon immutatus 2801.
- Pituitary,**
hormone release, weaning, open-field behavior, avoidance behavior, juveniles, pigs 1348
peptides, effects on short-term behavior mice 1038
stress, tonic immobility, behavioral genetics, *Sylvilagus floridanus* 788
- Pituitrophus melanoleucus,**
predators, feeding behavior, food organisms, Aso octo 2662
thermoregulatory behavior, body temperature 2822
- Placentophagia,**
observational learning, maternal behavior, rats 1329
- Plant extracts,**
antifeedants, Thuja plicata, *Pissodes strobi*, *Altica ambiens* 2638
Bacopa monnieri, effects on learning behavior, rats 2971
- Plasma,**
corticosterone, catecholamines, stress, rats 2236
transfusion, protein, operant conditioning, rats 1683
- Plasma level,**
corticosterone, stress, tissues distribution, rats 1119
- Plasma levels,**
adrenaline, fear conditioning effects on, monkeys 2231
corticosteroids, stress effects on, mice 1117
corticosterone, stress, electric fields perception, mice 1921
hydrocortisone, mother-offspring interactions effects on, *Macaca mulatta* 210
hydrocortisone, mother-offspring interactions, separation effects on, infants, *Macaca mulatta* 209
sex hormones, testosterone, luteinizing hormone, sexual behavior, rats 189
testosterone, binding, central nervous system, aggression, dominance, mice 1045
- Plasticity,**
neurons, memory, learning behavior, *Aplysia californica* 2984
- Platichthys flesus,**
pollution effects, DDT, hyperactivity, swimming, diurnal variations, Baltic 511
- Platycephalus arctatus,**
cypripis, coloration, visual stimuli 467
- Platycephalus fuscus,**
ventilatory behavior, morphology, adaptations 780
- Platyercus adactus,**
feeding behavior, diets, herbivory, seasonal variations, Australia 1472
- Platyercus eximius,**
feeding behavior, diets, herbivory, seasonal variations, Australia 1472
- Platycephalus caligata,**
mating behavior, oviposition, territorial behavior 3505
- Platycephalus fuscimouli,**
mating behavior, courtship, display 2431
- Play,**
cortex ablation, species behavior, neonates, hamsters 1959
early experience effects on, noise, rats 3878
early experience, learning behavior, *Mustela putorius*, *Mustela furo* 2918
fighting, social behavior, *Gymnorhinus tubicen* 4471
grooming, social behavior, *Aotus trivirgatus* 3869
juveniles, ontogeny, *Gymnorhinus tubicen* 1108
Larus canus 4470
migrations, *Balaena mysticetus*, USA, Alaska Coast 3024
milk reduction effects on, grazing, energy budget, juveniles, *Odocoileus virginianus* 2232
mother-offspring interactions, nervous system development, *Macaca mulatta* 1114
mother-offspring interactions, social rank, *Macaca fuscata* 2234
ontogeny, social behavior, social hierarchy, rats 2233
social behavior, androgens effects on, rats 3365
social behavior, environmental effects, helicopters, juveniles, *Rangifer tarandus* pearyi 241
social behavior, mother-offspring interactions, ontogeny, *Pan troglodytes*, *Pongo pygmaeus* 1628
social interactions, adults, *Ursus maritimus* 2235
social interactions, social behavior, mother-offspring interactions, dominance, *Cervus elaphus* 1369
theft, golf balls, *Corvus macrorhynchos*, Bangladesh 2899.
- Plea leachi,**
U.V. radiation effects on movements, orientation 3067
- Plehesia droryana,**
foraging behavior, activity patterns, males 3677.
- Plecoptera,**
drumming, auditory communication 3384.
- Plethodon cinereus,**
feeding behavior, predation, food preferences, energy expenditure 326
habitat preferences, interspecific relationships, predation, *Pipilo erythrophthalmus*, *Toxostoma rufum* 2820
territorial behavior, conspecifics recognition, pheromones, aggressive behavior 2320.
- Plethodon jordani,**
anti-predator behavior, predator-prey interactions, energetics, *Thamnophis elegans* 3799.
- Pleurogramma antarcticum,**
food organisms, size distribution, *Pygoscelis*, Antarctica, King George I. 355.
- Pleurogramma plectki,**
vertical migrations, mating behavior, morphology effects on 422.
- Pteronectes platessa,**
feeding frequency, food intake, growth 3694.
- Ptoceus philippinus,**
annual cycles, sexual reproduction, gonads, photoperiods 169.
- Podia interpunctella,**
copulation, release factors, physical characteristics 124
sex pheromone, orientation, sexual behavior, females 2273
- Poetella xylostella,**
cannery-recapture studies, sex pheromone pheromone traps, simulation models 12.
- Pluvialis apricaria,**
sheltering behavior, storms 2846
- Pluvialis dominica,**
foraging behavior, social behavior, dominance, Canada, Manitoba 2696
- Pluvialis squatarola,**
foraging behavior, social behavior, dominance, Canada, Manitoba 2696.
- Podagrion mantis,**
mating behavior 1243
- Podiceps gallardoi,**
courtship, ecology 1309
- Podiceps nigricollis,**
display, mating behavior 3542
- Podischnus agenor,**
competition, males, adaptations, morphology, competitive behavior 2781.
- Podocnemidinae,**
feeding behavior, surface water particles, neustophagia 2660
- Poecilia reticulata,**
courtship, temperature effects on 3529
feeding behavior, food preferences, growth 335
pollution effects, phenol, learning behavior, courtship 3804
- Poecilopsis 2 monacha-lucida,**
feeding behavior, clones, resource partitioning 2679.
- Poecilostictus coburnatus,**
parasitoids, host-parasite interactions, oviposition, host preferences, *Bupalus piniarius*, Netherlands 2403.
- Poephila guttata,**
mate selection, coloration, leg bands, attractancy 4086
ontogeny, reproductive strategy, sexual behavior 165.
- Pogonomymex badius,**
colonies, foraging behavior, intraspecific relationships, competition 1424.
- Pogonomymex californicus,**
copulation, mate selection 3513
foraging behavior, predator-prey interactions, *Phrynosoma platyrhinos*, USA, Nevada 1521
- Pogonomymex owyhee,**
feeding behavior, division of labor, caste differentiation, social organization 1362
foraging behavior, resource partitioning, colonies 2646.
- Pogonomymex rugosus,**
feeding behavior, food preferences, seeds 1437
foraging behavior, predator-prey interactions, *Phrynosoma platyrhinos*, USA, Nevada 1521
- Polarity,**
magnetic fields, navigation behavior, pigeons 665.
- Polarization,**
light, orientation, *Apis mellifera* 4035.
light, orientation, navigation behavior, *Apis mellifera mellifera* 4037.
light, role, navigation behavior, *Cortixidae* 1841
light, visual perception, *Teleostei* 715
neurons, cats effects on, cats 844
- Polimonium foliosissimum,**
oviposition deterrents, parasites, *Hylemya* 112.
- Polinices alderi,**
reproductive behavior, feeding behavior, annual variations, predator-prey relationships, *Telina tenuis* 282.
- Polinices incei,**
predatory behavior, auditory stimuli, prey orientation 1407.
- Polistes chinensis antennalis,**
colonial characteristics, nesting behavior, workers 1532
colonies, population levels, emergence, effects on, predatory behavior 1434.
nest building, nesting behavior 1533.
- Polistes exclamans,**
overwintering, aggregation behavior, clumping, gynes 3466.
- Polistes fuscatus,**
mate selection, conspecifics recognition 2426
- Polistes gallicus,**
homing behavior, orientation, wind, Italy 643
orientation, homing behavior 3003
social hierarchy, pleiotropic foundations, haplotypic foundations, sexual reproduction, breeding success 2372.
- Polistes metricus,**
intraspecific relationships, association 221
- Polistes nimpha,**
territorial behavior, aggressive behavior, scent marking behavior 2345
- Pollen,**
attractancy, foraging behavior, *Apis mellifera* 3675.
- Pollicipes polymerus,**
food consumption, diets, variation, juveniles, adults 3658.
- Pollimyrus kribia,**
electric organs, communication, sexual dimorphism, social behavior 2286.
- Pollination,**
feeding behavior, *Apis mellifera* 302.
- Pollinators,**
chemical perception, attractants, effects on foraging behavior, *Apis mellifera* 2635
feeding behavior, environmental effects, *Andrena eugenae* 291.
foraging behavior, *Aralia hispida* 3671.
foraging behavior, *Centris*, Panama 2652.
foraging behavior, *Digitalis purpurea*, *Bombus* 2648.
foraging behavior, plasticity, *Bombus bifarius*, *Bombus flavifrons* 2653.
- Pollution effects,**
carbaryl, ventilatory behavior, *Macropodus cupanus* 3807.
dicrotophos, parental behavior, breeding success, *Sturnus vulgaris* 3586.
drilling mud, feeding, activity patterns, *Homarus americanus* 3767
oil, nest building, *Amphibotho valida* 1234.
oil pollution, feeding behavior, *Oncorhynchus kisutch* 2673.
oil pollution, *Protobotha staminea*, Cancer magister, USA, Washington Coast 2621
oil spills, swimming behavior, *Oryzomys palustris* 2855.
phenol, learning behavior, courtship, *Poecilia reticulata* 3804.
toxicity, DDT, hyperactivity, swimming, diurnal variations, *Platichthys flesus*,

Pollution effects, (continued)

- Baltic 511
zinc, valves movements, *Scrobicularia plana* 2776.
- Pollution levels,**
heavy metals, avoidance behavior, *Salmo gairdneri* 3805.
- Pollution monitoring,**
heavy metals, pollution levels, avoidance behavior, *Salmo gairdneri* 3805.
- Polybia occidentalis,**
defensive behavior, alarm behavior, alarm pheromone, attack 1191.
- Polybia sericea,**
trail pheromone, trail following behavior 2257
- Polychrus acutirostris,**
sexual behavior, behavior, patterns, Brazil 2892.
- Polydipia,**
lithium induction, lead effects on juveniles, rats 3256.
reinforcement schedules, d-amphetamine effects on, drinking behavior, rats 4358.
reinforcement schedules, sensitivity, insensitivity, taste aversion learning, rats 1747.
schedule-induced behavior, adjunctive behavior, fixed time schedule, rats 1676
schedule-induced behavior, adjunctive behavior, stimuli generalization, rats 1784.
schedule-induced behavior, alcohol, food availability, rats 3930
schedule-induced behavior, cortex lesions, rats 4238.
schedule-induced behavior, feral populations, domestic animals, hybrids, rats 1707.
schedule-induced behavior, tetracycline effects on, rats 4336.
taste aversion learning, reinforcement schedules, rats 1748.
- Polygamy,**
mating behavior, lek, social hierarchy, *Chirotopia caudata* 1313.
paternal behavior, reproductive behavior, *Mimus polyglottus* 3552.
sexual behavior, sex differences, *Ficedula hypoleuca* 1297.
- Polygyny,**
mating behavior, territorial behavior, breeding success, *Agelaius phoeniceus* 3539.
- Polyimide,**
decomposition, effects on escape behavior, avoidance behavior, rats 3250.
effects on avoidance behavior, escape behavior, rats 2098.
- Polyomorphism,**
behavior, colonial characteristics, activity patterns, larvae, *Malacosoma americanum* 3794.
bills, feeding behavior, *Chondrohierax uncinatus* 2703.
color matching, visual stimuli, substrate preferences, *Circotettix rubula* 3891.
environmental effects, stress, population structure, castes, *Formica obscuripes* 457.
- Polyorchis penicillatus,**
feeding behavior, swimming behavior 2626.
- Polyascharides,**
diet variations, metabolism, activity patterns, *Oziotephusa senex senex* 749
- Polyurethane,**
decomposition, effects on escape behavior, avoidance behavior, rats 3250.
effects on avoidance behavior, escape behavior, rats 2098.
- Pomatomus saltatrix,**
feeding behavior, predation, *Cephus grylle*, *Somateria mollissima* 3688.
- Pomarine,**
nesting behavior, predation, USA, Florida 1536.
- Ponds,**
adaptations, mating behavior, courtship, *Ambystoma texanum* 3524.
foraging behavior, territorial behavior, *Notoththalmus viridescens* 2347.
predation, larvae, eggs, *Ambystoma maculatum*, *Chironomidae*, Canada, Quebec 320.
recognition, self-stimulation 602.
- Pongo pygmaeus,**
mother-offspring interactions, ontogeny, social behavior, play 1628.
- Pons,**
lesions, effects on locomotor activity, running, rats 894.
lesions, rhythms, seasonal variations, grooming, rats 1939.
lesions, sleep and wakefulness, atonia, exploratory behavior, rats 3114.
norepinephrine, physical activity, drug effects, morphine, amphetamine, rats 2142.
nucleotides levels, sleep and wakefulness, rats 770.
- Postoporia blainvilliei,**
reproductive behavior, seasonal variations 180.
- Poocetes gramineus,**
vocalization behavior, song, location, geographical distribution, conspecifics 1160.
- Popilia japonica,**
competition, intraspecific relationships, instars, population density 1526.
food preferences, larvae 304
- Population characteristics,**
learning behavior, memory, visual stimuli, *Drosophila* 1770.
- Population density,**
age, weaning, competition, *Mirounga angustirostris* 2484.
aggregation behavior, singing sites, spatial distribution, males, *Amblycorypha paucipennis* 1219.
aggressive behavior, fecundity, *Citellus pygmaeus* 3474.
annual variations, *Megaptera novaeangliae*, Tropical Pacific Ocean 666.
auditory communication, drumming, *Bonasa umbellus* 1173.
breeding success, nesting behavior, colonial characteristics, *Larus marinus* 3585.
burrowing behavior, seasonal variations, *Brachytrypus portenosus* 2788.
counting methods, instruments, Aves 1088.
effects on aggressive behavior, *Macaca fuscata* 79.
effects on aggressive behavior, *Macaca fuscata* 3460.
effects on intraspecific relationships, host searching behavior, parasitoids, *Ventura canescens* 1556.
effects on social behavior, *Microtus pennsylvanicus*, *Microtus breweri* 236.
effects on social interactions, copulation, *Alouatta palliata* 196.
effects on social interactions, spatial distribution, segregation, *Ursus maritimus* 2579.
effects on song, geographical variations, *Emberiza calandra* 2300.
effects on spatial distribution, models 1215.
effects on territorial behavior, mating behavior, *Scathophaga stercoraria* 127.
environmental effects, competition, reproductive isolation, strains, *Drosophila melanogaster* 225.
environmental factors, breeding sites, *Haematopus ostralegus*, Netherlands, Vlieland I. 161

Population density, (continued)

- food availability, territorial behavior, *Agelenopsis aperta* 1218.
food availability, territorial behavior, *Cercopithecus aethiops tantalus*, Cameroon 91.
food sources, effects on feeding behavior, *Phytoseiulus persimilis*, *Amblyseius degenerans* 284.
food sources, effects on feeding behavior, predation, *Phytoseiulus persimilis*, *Amblyseius degenerans* 283.
genotypes, mating behavior, *Clethrionomys glareolus* 2483.
habitat selection, dispersal, colonization, intraspecific relationships, *Peromyscus maniculatus*, Canada, British Columbia, Mandarte I. 90.
hosts, host searching behavior, *Neodiplosis sertifer*, *Lophoproctus luteator* 2428.
intraspecific relationships, competition, instars, *Popilia japonica* 1526.
nesting behavior, colonies, breeding success, competition, *Ardeidae*, France, Camargue 1306.
oviposition deterrents, pheromones, *Atherigona soccata* 1252.
parasites, oviposition, host selection, competition, *Biosteres longicaudatus* 1545.
population regulation, interspecific relationships, killer trait, *Paramecium aurelia*, USA, Indiana 1524.
population-environment relations, environmental factors, pupae, spatial distribution, *Rhagoletis indifferens* 437.
predators, effects on food consumption, predatory behavior, *Phytoseiulus persimilis*, *Amblyseius degenerans* 2607.
prey, predation effects on, predator-prey interactions, mathematical models 252.
prey, predatory behavior, *Phytoseiulus persimilis*, *Amblyseius degenerans* 2606.
social organization, *Simias concolor*, *Presbytis potenziensis*, Sumatra, Siberut I. 3640.
spatial distribution, controlled conditions, *Edalia tuberosa* 84.
territorial behavior, social organization, home range, *Eremias grammica* 3468.
- Population dynamics,**
aggressive behavior, *Microtus ochrogaster*, *Microtus pennsylvanicus* 3455.
colonial characteristics, polymorphism, behavior, activity patterns, larvae, *Malacosoma americanum* 3794.
life cycle, development, chemotaxis, hosts, *Simuliidae*, *Mammalia* 645.
marine environment, wind, seasonal variations, environmental conditions, habitat, ice, social behavior, territorial behavior, *Phoca hispida*, Baffin I. 484.
migrations, thermoregulatory behavior, *Danaus plexippus* 2813.
models, role, ethology, *Insecta* 2785.
reproductive behavior, mate selection, *Cystosoma saundersi* 1278.
social interactions, *Microtus pennsylvanicus*, *Microtus breweri* 236.
territorial behavior, aggressive behavior, *Microtus townsendii* 3476.
- Population genetics,**
colonial characteristics, mating behavior, *Lasius sakagami* 1242.
evolution, social behavior, mathematical models 3839.
fitness, inbreeding, reproductive behavior, *Parus major* 170.
genetic relationship, colonial characteristics, social behavior, measuring techniques, *Insecta* 3838.
population structure, courtship, mating behavior, *Drosophila primaeva*, Hawaii 141.
social organization effects on, *Oryctolagus cuniculus* 243.
- Population levels,**
colonies, emergence, effects on, predatory behavior, *Polistes chinensis antennalis* 1434.
environmental effects, foraging behavior, *Dendroica virens*, *Dendroica coronata* 2689.
- Population regulation,**
aggressive behavior, intraspecific relationships, *Clethrionomys gapperi*, Canada, Manitoba 1567.
colonies, cannibalism, queens, *Hymenoptera* 220.
interspecific relationships, killer trait, *Paramecium aurelia*, USA, Indiana 1524.
reproductive behavior, demography, *Macaca mulatta* 2510.
- Population structure,**
assortative mating, mate selection, cross-breeding, *Columba livia* 3538.
competition, mate selection, *Rana sylvatica* 151.
environmental effects, stress, castes, *Formica obscuripes* 457.
limiting factors, food availability, *Eubryda luteis*, USA, California 2364.
population genetics, courtship, mating behavior, *Drosophila primaeva*, Hawaii 141.
sex ratio, abundance, association, colonies, *Reicutilermes flavipes* 85.
social organization, *Colius striatus*, Gabon 3617.
social organization, environmental factors, *Lama vicugna*, Peru, Pampa Galeras Nati. Reserve 3623.
social organization, habitat, *Cervus dama*, France, Alsace 3624.
social organization, *Macaca fuscata* 3639.
social organization, *Papio cynocephalus*, Tanzania 1381.
territorial behavior, breeding success, *Zonotrichia leucophrys nuttalli* 2357.
- Population studies,**
geographical variations, sexual behavior, *Drosophila silvestris*, Hawaii 3517.
nest building, seasonal variations, habitat, *Pan troglodytes*, Equatorial Guinea, Senegal 3867.
spatial distribution, food availability effects on, *Tamias striatus* 2366.
- Population-environment relations,**
population density, environmental factors, pupae, spatial distribution, *Rhagoletis indifferens* 437.
- Populations,**
hybrids, song variants, *Chorthippus mollis* 1140.
mathematical models, sexual behavior, *Chauliognathus pennsylvanicus* 140.
- Porifera,**
locomotion, behavior, cytology 3030.
- Porphyrites,**
settling behavior, survival, spatial distribution, aggregation 83.
- Porrothoe antipodiana,**
predatory behavior, food consumption, *Helix aspersa* 3666.
- Portal vein,**
surgery, effects on drinking behavior, rats 1961.
- Portia fimbriata,**
mating behavior, courtship 2380.
predatory behavior, webs, Australia, Queensland 2604.
- Portunidae,**
food selection, measuring techniques 257.
megalopae, swarming behavior, Curacao Coast 3607.
- Portunus pelageus,**
diets, feeding behavior, seasonal variations, India 1392.
food selection, measuring techniques 257.

- Posture,**
asymmetry, encephalins effects on, rats 1989
communication, *Canis familiaris* 3346
contralateral rotation, nucleus tegmenti pedunculo-pontinus, analogs, substantia nigra, *Columbia livia* 4152
drug effects, L-Dopa, apomorphine, methamphetamine, *Callithrix jacchus* 971
thermoregulatory behavior, environmental factors, *Pentatomidae* 3780
thermoregulatory behavior, temperature effects, size, pigs 495
ventilatory behavior, respiration frequency, juveniles, *Mammalia* 515
- Potamochoborus porcus,**
diets, feeding behavior 2753
- Potamopygus jenkinsi,**
effects on, feeding behavior, leaf litter, freshwater environments 1396
- Potentiation,**
latent inhibition, classical conditioning, rats 2941
naloxone, intracranial chemical stimulation, reinforcement, chlorpromazine, rats 2001
taste aversion learning, rats 3986
- Potomox flavitellae,**
aggressive behavior, dominance, recognition, visual stimuli 93
- Power plants,**
thermal effluents, temperature preferences, *Perca flavescens*, USA, Mississippi R 2825
- Prairies,**
flowers, foraging behavior, *Hymenoptera*, USA, Wyoming 1441
- Frazziosi,**
intracranial self-stimulation, neurophysiology, rats 4273
- Precis coenia,**
migrations, weather, synoptic-scale wind systems 3007
- Preconditioning,**
effects on, eyelid conditioning, associative learning, rabbits 1694
- Predation,**
activity patterns, feeding behavior, geographical variations, littoral zone, *Gastropoda* 279
aggressive behavior, *Larus argentatus*, *Clangula hyemalis* 2724
aggressive behavior, mice killing, inducers, genetics, environment, neurochemistry, rats 865
aggressive behavior, visual stimuli effects on, *Betta splendens* 61
anti-predator behavior, defensive behavior, *Myrmecoleon*, *Formicidae* 2810
avoidance behavior, aversion learning, lithium chloride, *Canis latrans* 1732
avoidance behavior, environmental conditions, *Odontata* 454
avoidance behavior, motor vehicles, *Anas platyrhynchos* 2851
avoidance behavior, *Trochidae* 53
body size, water temperature, *Panopeus herbstii*, *Mercenaria mercenaria* 261
cleptoparasitism, feeding behavior, *Argyrodes* 1416
Coralliophila abbreviata, Haiti Coast 3656
cyproterone acetate, drugs, *Mustela* 396
development, aggressive behavior, early experience, adult, cats 71
development, aggressive behavior, early experience, juveniles, cats 72
development, aggressive behavior, hunger, juveniles, cats 73
diets, *Cancer irroratus*, Canada, Nova Scotia Coast 2605
diets, *Coralliophila abbreviata*, *Coralliophila caribaea*, *Cnidaria* 2624
diets, food consumption, *Felis caracal*, South Africa 2738
echolocation, orientation, *Mammalia* books 3372
effects on abundance, *Passer montanus*, *Leucoma candida* 370
effects on feeding behavior, pollinators, *Serpentes*, *Chiroptera* 3679
effects on nesting behavior, brood care, colonial characteristics, *Lepomis macrochirus* 2453
effects on prey population density, predator-prey interactions, mathematical models 252
effects on prey vocalization behavior, *Chiroptera*, *Anura* 2280
effects on shells habitat selection, *Paguridae* 424
effects on vocalization behavior, mating behavior, *Physalaemus pustulosus* 2281
efficiency, vegetation patterns effects on, *Cyprinodontidae*, *Decapoda* 418
eggs, factors affecting, *Cyruis caruinus* 3730
eggs, struthidean cinera, *Grallina cyanoleuca*, Australia 3724
feeding behavior, *Accipiter gentilis*, Sweden 1480
feeding behavior, diel variations, *Ardea herodias* 2699
feeding behavior, echolocation, frequency, *Trachops cirrhosus* 390
feeding behavior efficiency, food organisms, *Macrodon quinque maculatus*, *Pheoleid* 1435
feeding behavior, food preferences, energy expenditure, *Plethodon cinereus* 326
feeding behavior, food selection, *Natica texta* 275
feeding behavior, food selection, *Procyon lotor*, USA, North Dakota 1491
feeding behavior, food sources population density effects on, *Physoteilus persimilis*, *Amblyseius degenerans* 283
feeding behavior, habitat preferences, *Lepomis macrochirus* 2672
feeding behavior, *Lynx pardina*, Spain 379
feeding behavior, pollution effects, oil pollution, *Oncorhynchus kisutch* 2673
feeding behavior, pollution effects, oil pollution, *Prothothaca staminea*, *Cancer magister*, USA, Washington Coast 2621
feeding behavior, *Pomatomus saltatrix*, *Cepheus grylle*, *Somateria mollissima* 3688
feeding behavior, predators, *Orcinus orca*, *Lobodon carinophagus* 381
feeding behavior, *Promicrops lanceolatus*, juveniles, *Chelonia mydas*, Tonga Islands 1460
feeding behavior, resource partitioning, *Notonecta*, British Isles 1436
feeding behavior, *Serrastruma serrula* 324
feeding behavior, suction feeding, *Pisces* 3697
feeding behavior, surplus killing, *Rangifer tarandus*, *Canis lupus*, USA, Alaska 3735
food organisms, *Larus canus*, *Operopthera brumata*, British Isles, Mainland 348
food organisms, *Muscipora strata*, *Isachis* 10 2710
food organisms, *Orbiterum austenti*, *Lepidoptera* 2631
food organisms, *Promicrops lanceolatus*, *Chelonia mydas* 2682
food organisms survival, body size effects on, *Olios*, *Euleutherodactylus coqui* 287
food preferences, body size, feeding behavior, *Neomysis mercedis* 1394
food preferences, *Caulolatilus microps*, USA, North Carolina Coast 3696
food preferences, developmental stages, water depth, juveniles, *Delontosteus quadrimaculatus* 1453
food selection, *Perognathus longimembris*, *Gambelia wislizeni*, USA, Nevada, Churchill Co. 3681
food selection, seasonal variations, diets, *Tadoma tadoma*, British Isles, Scotland 353
food selection, zooplankton, *Neomysis mercedis*, USA, Washington, Washington L. 266
- Predation, (continued)**
foraging behavior, energetics, habitat variation, *Argiope trifasciata*, *Araneus tritubus* 3665
foraging behavior, feeding immunity, *Apis mellifera*, *Apus bradfieldi* 3719
foraging behavior, larvae, *Coccinella trifasciata*, *Coccinella californica*, *Coccinella undecimpunctata*, *Cycloneda polita* 1428
foraging behavior, mathematical models 2598
foraging behavior, *Megaoponera foetens*, *Macrotermitinae* 1393
foraging behavior optimization, *Falco sparverius* 3709
foraging behavior, zooplankton, *Oncorhynchus nerka* 2674
host plants effects on, food organisms biomass, *Mesomela varia* 273
interspecific relationships, habitat preferences, *Plethodon cinereus*, *Pipilo erythrophthalmus*, *Toxostoma rufum* 2820
larvae, eggs, *Ambystoma maculatum*, ponds, *Chironomidae*, Canada, Quebec 320
mimicry, bioluminescence, interspecific relationships, *Photuris* 28
Myotis lucifugus colonies, *Onus* asio 3717
nesting behavior, *Pompilidae*, USA, Florida 1536
oviposition, evolution, *Ammophila aberti* 1539
predator-prey interactions, *Solenopsis invicta*, *Chalcoderus aeneus* 297
seasonal variations, diets, *Tadoma tadoma*, *Hydrobia* 352
seasonal variations, diets, *Tadoma tadoma*, *Hydrobia* 352
spatial distribution, age effects, *Canis latrans* 89
vulnerability, escape behavior, reproduction effects on, *Lacerta vivipara* 2817
- Predator-prey interactions,**
aggressive behavior, *Parulicus cygnus*, predators, *Octopus tetricus* 1187
anti-predator behavior, defensive behavior, *Pissaster giganteus*, *Tegula pulgillio*, *Calliostoma ligatum* 2619
anti-predator behavior, *Syrphidae*, *Schulzeichnus pinet* 3782
avoidance behavior, locomotor activity, *Halobates robustus* 1555
capture, efficiency, light effects, dark, *Chaoborus punctipennis*, *Copepoda* 301
eggs, larvae, *Insecta*, *Pseudopoda* includes 293
energetics, anti-predator behavior, *Thamnophis elegans*, *Plethodon jordani* 3799
feeding behavior, food organisms morphology, *Actinophrys* sol, *Colpidium colpoda* 1460
feeding behavior, food preferences, *Natica maculosa*, *Thais carmel*, *Anadara granosa* 281
feeding behavior, mathematical models, subharmonic solutions 251
food selection, predators, feeding behavior, prey size, competition, *Sorex araneus* 399
food sources population density effects on feeding behavior, *Physoteilus persimilis*, *Amblyseius degenerans* 284
foraging behavior, food selection, *Phrynosoma platyrhinos*, *Pogonomymex californicus*, *Pogonomymex rugosus*, USA, Nevada 1521
foraging behavior, hunger, abundance, *Coccinella californica*, *Acyrtosiphon pisum* 1430
foraging behavior, larvae, *Chrysopa carnea*, *Hippodamia convergens* 1429
foraging behavior, optimization, models 3654
foraging behavior, prey spatial distribution, diel variations, *Parulidae* 2690
home range, juveniles, *Odocoileus hemionus*, *Canis latrans*, USA, Colorado 1224
mathematical models, predation effects on prey population density 252
mathematical models, predators training, feeding behavior, diets 1062
mathematical models, resource exploitation, carnivores, social interactions, territorial behavior 1068
pheromones, synergism, biochemical analysis, chemotaxis, *Thanasimus formicarius*, *Ips typographus*, *Thanasimus femoralis* 635
population density, predators, effects on food consumption, predatory behavior, *Physoteilus persimilis*, *Amblyseius degenerans* 2607
predatory behavior, anti-predatory behavior, *Onis inosidius*, *Scirtochips variabilis* 1551
predatory behavior, cannibalism, prey abundance, *Adalia bipunctata*, *Eucallipterus tiliae* 3508
predatory behavior, *Caranx melampygus*, *Caranx ignobilis*, Indian Ocean, *Aldabra Atoll* 1463
predatory behavior, *Lepomis macrochirus* 2667
predatory behavior, *Serrastruma serrula*, *Folsomia candida* 316
prey kairomones effects on predatory behavior, *Amblyseius fallacis*, *Physoteilus macropilis* 1901
Solenopsis invicta, *Chalcoderus aeneus* 297
spatial distribution, prey, predatory behavior, *Physoteilus persimilis*, *Amblyseius degenerans* 2608
- Predator-prey relationships,**
reproductive behavior, feeding behavior, annual variations, *Polinices aldeni*, *Tellina tenuis* 282
- Predators,**
anti-predator behavior, death shamming, *Hyaena brunnea*, *Panthera leo* 3832
anti-predator behavior, mobbing, *Passeriformes*, *Circus cyaneus* 3816
anti-predator behavior, seasonal variations, *Onus* asio, *Turdus migratorius* 2840
attack, food organisms defensive behavior effects on, *Onychomys torridus* 3744
avoidance behavior, defensive behavior, *Araneidae*, *Uloboridae* 3789
avoidance behavior, foraging behavior, flocking behavior, *Passer domesticus* 3837
avoidance behavior, secretions, *Notophthalmus viridescens*, *Dytiscus verticalis* 1716
cirral withdrawal, avoidance behavior, *Balanus glandula* 2773
defense mechanisms, endotoxins, effects on activity patterns, *Gambusia affinis*, *Alyconacea* 2829
defensive behavior, maternal behavior, *Gargaphia solani* 1344
defensive behavior, vocalization behavior, *Cynia tenera*, *Chiroptera* 2806
effects on activity patterns, *Rodentia*, Canada, Quebec 483
effects on alarm behavior, display, *Opius grandident*, *Opius cyclurus* 2284
effects on colonies, social behavior, *Cynomys leucurus*, *Cynomys ludovicianus* 1371
effects on escape behavior, stress, *Saimiri* 2240
face recognition, visual discrimination, *Chromis caeruleus* 3808
face, visual discrimination, recognition, coral reefs, *Pisces* 3809
feeding behavior, food composition, sex differences, habitat preferences, *Trionyx muticus* 327
feeding behavior, food organisms abundance effects on, zooplankton, *Lepomis macrochirus* 3690
feeding behavior, food organisms, *Pituophis melanoleucus*, *Asio otus* 2662
feeding behavior, food preferences, *Anura* 328
feeding behavior, food preferences, *Mariposa tigrina*, *Insecta* 286
feeding behavior, food selection, trophic relationships, *Valenciennellus truncatulus* 333
food consumption, energy intake, foraging behavior, *Macrodon quinque maculatus* 3670

Predators, (continued)

- food organisms palatability, anti-predator behavior, *Biarina brevicauda*, *Hyla venicolor* 282
 food selection, feeding behavior, prey size, competition, *Sorex araneus* 399.
 foraging behavior, feeding behavior, *Oenanthe oenanthe* 1481.
 foraging behavior, food organisms ingestion, *Micropterus salmoides*, *Lepomis cyanellus*, *Lepomis macrochirus* 3691.
 foraging behavior, food selection, food availability, *Anolis aeneus* 1450.
 foraging behavior, predator-prey interactions, larvae, *Chrysopa carnea*, *Hippodamia convergens* 1429.
Octopus tetricus, aggressive behavior, predator-prey interactions, *Parulicus cygnus* 1187.
 odors, *Biarina brevicauda*, avoidance behavior, *Microtus pennsylvanicus* anti-predator behavior 2858.
 population density, effects on food consumption, predatory behavior, *Phytoseiulus persimilis*, *Amblyseius degenerans* 2607.
 predation, feeding behavior, *Orcinus orca*, *Lobodon carcinophagus* 381.
 predation, predator-prey interactions, feeding behavior, eggs, larvae, *Insecta*, *Pseudopulus* includes 293.
 recognition, prey, avoidance behavior, *Falco*, *Helogale undulata rufula*, *Tockus* 176.
 survival adaptations, cataplexy, mice 1575.
 training, mathematical models, predator-prey interactions, feeding behavior, diets 1062.
 trophic relationships, foraging behavior ecology, deserts, *Lacertilia* 1559.
Predatory aggression,
 predatory behavior, vision, literature reviews, *Salicidae* 1405.
Predatory behavior,
 activity patterns, spatial distribution, *Felis* 3865.
 aggression, prey, mice 1515.
 attack, *Anolis* 3685.
 attack, capture, *Serrastruma serrula* 2656.
 attack, chemoreception, tongue, *Crotalus enyo* 1444.
 auditory perception, sound localization, *Tyto alba* 3081.
 auditory stimuli, prey orientation, *Poliochelis* incei 1407.
 breeding success, *Mergus serrator*, *Larus argentatus*, USA, Wisconsin 3714.
 caching, *Vulpes vulpes*, Canada, Newfoundland, *Baculeu* 1. 2743.
 cannibalism, prey abundance, predator-prey interactions, *Adalia bipunctata*, *Eucallipterus tiliae* 3508.
 chemical stimuli, *Crotalus viridis*, *Crotalus enyo* 3678.
 chemoreception, food organisms, *Crotalus viridis* 733.
 chemoreception, genetic factors, *Thamnophis elegans* 646.
 chemotaxis, food organisms localization, *Crotalus viridis*, *Mus musculus* 1445.
 colonies, population levels, emergence, effects on, *Polistes chinensis antennalis* 1434.
Corvus caurinus, juveniles, *Sturmus vulgaris*, Canada, British Columbia 2697.
 diets, food preferences, *Colomys gosingii*, Africa 2742.
 diets, optimization, mathematical models 3652.
 diurnal variations, *Calliope maculosa*, *Callinectes* texensis 2614.
 echolocation, colliculus anatomy, *Rhinolophus ferrumequinum* 801.
 echolocation, habitat utilization, *Chiroptera*, Australia, Queensland, Chillagoe 3740.
 ESB, midbrain, hypothalamic lesions, rats 3188.
 evolution, oviposition, *Ammophila aberti* 1539.
 feeding behavior, *Balaeniceps rex* 2705.
 feeding behavior, lateral line, swimming behavior, *Aplocheilichthys lineatus* 3687.
 feeding behavior, zooplankton, *Alosa aestivalis* 3698.
 food availability deprivation effects on, *Onychomys torridus* 3743.
 food consumption, food organisms, *Eumeces laticeps* 3686.
 food consumption, *Helix aspersa*, *Porhorella antipodiana* 3666.
 food consumption, population density, predators, *Phytoseiulus persimilis*, *Amblyseius degenerans* 2607.
 food organisms detection, chemoreception, *Proteus anguinus*, *Necturus maculosus* 4107.
 food organisms, *Neotamias vittatus* 3858.
 food organisms, neurons responsiveness, *Bufo bufo* 1978.
 food organisms, *Pica pica*, *Passer domesticus* 2722.
 food organisms selection, *Accipiter nisus*, *Parus* 2716.
 food organisms, *Serrastruma serrula*, *Folsomia candida* 3668.
 food preferences, *Lepidoptera*, *Argiope brunneichthys* 2611.
 food selection, *Crocota crocata*, Namibia, Namib Desert 3748.
 food selection, grazing, herbivores 255.
 food selection, prey, *Agonum dorsale* 3509.
 food selection, prey, *Alcedo atthis*, Belgium, Lesse R. 3715.
 food selection, prey, *Pardosa vancouveri* 2636.
 food selection, prey, vision 2602.
 food sources, *Enhydra lutris*, *Aechmophorus occidentalis*, USA, California 2747.
 foraging behavior, *Chaetodon capistratus*, *Chaetodon acauleatus* 2681.
 foraging behavior, larvae, *Coccinella trifasciata*, *Coccinella californica*, *Coccinella undecimpunctata*, *Cycloneda polita* 1428.
 foraging behavior, *Laticauda colubrina* 2666.
 foraging behavior, light effects on, *Abramsis pacifica* 3692.
 hallucinations, kainic acid, intracranial chemical stimulation effects on, cats 2219.
 humidity, chemical stimuli, prey capture, *Notiophilus biguttatus* 2640.
 imprinting, diets, growth, *Homalozoon vermiculata* 265.
 interaction, *Canis lupus*, *Ursus americanus*, USA, Minnesota 3734.
 interspecific relationships, *Canis latrans*, *Odocoileus hemionus* 3738.
 lesions, optic tectum, prey acquisition, comparison, visual stimuli, tactile stimuli, *Rana pipiens* 2012.
 literature reviews, forebrain lesions, inhibition, rats 882.
 locomotion efficiency, *Notonecta* 3038.
 locomotion, energetics, *Ursus maritimus* 3045.
 locomotor activity, *Esox niger* 2678.
 mimicry, death feigning, *Haplochromis livingstoni*, Africa, Malawi L. 1462.
 nest provisioning, nesting behavior, *Allyson conicus* 2518.
 nesting behavior, interspecific relationships, *Crocodylus acutus*, *Iguana iguana* 3859.
 open-field behavior, chickens 1485.
 optimal search tactics, animal models, energy intake 1390.
Ozias verreauxi, *Eriphia squamata*, Panama Gulf 264.
 parental behavior, *Typha alba* 200.
Phytoseiulus macropilis effects on, *Amblyseius fallacis*, *Phytoseiulus macropilis* 1901.
 population density, spatial distribution, prey, *Phytoseiulus persimilis*.

Predatory behavior, (continued)

- Amblyseius degenerans* 2606.
 predator-prey interactions, *Caranx melampygus*, *Caranx ignobilis*, Indian Ocean, Aldabra Atoll 1463.
 predator-prey interactions, *Lepomis macrochirus* 2667.
 predator-prey interactions, *Orius insidiosus*, *Scirtothrips variabilis* 1551.
 predator-prey interactions, *Pisaster giganteus*, *Tegula pullig*, *Calliostoma ligatum* 2619.
 predator-prey interactions, *Serrastruma serrula*, *Folsomia candida* 316.
 predator-prey interactions, spatial distribution, prey, *Phytoseiulus persimilis*, *Amblyseius degenerans* 2608.
 predatory aggression, vision, literature reviews, *Salicidae* 1405.
 prey escape behavior, venom effects on, *Mus musculus*, *Crotalus viridis* 2856.
 prey handling energetics, food organisms, *Insecta*, *Attila spadiceus*, *Monasa morphoeus* 3712.
 reproductive behavior, breeding success, *Falco peregrinus* 3718.
 role, cholinergic mechanisms, *Putorius furo* 4178.
 sensory stimuli role, *Triturus alpestris* 2665.
 social behavior, reviews, *Carnivora* 3835.
 social organization, *Canis latrans* 237.
 suction feeding, functional morphology, jaw, *Luciocephalus pulcher* 1464.
 suppression, taste aversion learning effects on, food organisms movements, *Onychomys leucogaster* 1764.
 tactile stimuli, visual stimuli, comparison, prey acquisition, *Rana pipiens* 1448.
 territorial behavior, *Canis lupus*, USA, Minnesota 3477.
 tracking, *Crotalus atrox* 1447.
 visual stimuli, mechanical stimuli, molting, *Rana linearis* 3669.
 webs, food preferences, *Mastophora dizzysdeani* 1523.
 webs, *Portia fimbriata*, Australia, Queensland 2604.
 webs, structure, function, aquatic environment, *Wendilgarda* 1395.
Prednisolone,
 intrauterine exposure, effects on maturation, locomotor activity, mice 4292.
Preferences,
 chain schedule, signals, reinforcement, operant response, choice learning, pigeons 1671.
 color, intraspecific relationships, *Anas platyrhynchos* 716.
 color, visual stimuli effects on, juveniles, chickens 1888.
 discrimination schedules, learning, retention, reinforcement, *Macaca mulatta* 1709.
 housing, social hierarchy, cattle 2219.
 light intensity, operant conditioning, sheep, cattle 1102.
 maze learning, delayed response, rats 551.
 multiple choice, delayed response, *Macaca mulatta*, Pan 618.
 preference for signal-shock, avoidance learning, rats 3978.
 reinforcement schedules, feeding behavior, food intake, deprivation, energy intake, *Junco hyemalis* 1467.
 reinforcement schedules, reversal learning, delay, pigeons 1800.
 sex, orientation, huddling, social behavior, juveniles, rats, *Rattus norvegicus* 1378.
 shock signals, aversion learning, classical conditioning 557.
 shock signals, avoidance learning 558.
 shock, signals, reversal learning, rats 1802.
 tests, sucking behavior, neonates, pigs 3604.
 urine odors, juveniles, fecal populations, guinea-pigs 1178.
 work, multiple schedule, reinforcement, rats 553.
Preferential behavior,
 color, genetics, genes, visual perception, juveniles, *Coturnix coturnix japonica* 1889.
 color, phenotypes, pleiotropy, genetics, *Coturnix coturnix japonica* 1584.
Pregnancy,
 aggressive behavior, females, mice 3449.
 effects on aggressive behavior, mice 65.
 effects on sexual behavior, rats 2493.
 fetuses sex differences, effects on aggression, *Macaca nemestrina* 1213.
 nest building, maternal behavior, mice 3600.
Prenatal experience,
 alcohol, drug effects, maze learning, rats 2168.
 alcohol, effects on activity patterns, rats 1610.
 alcohol, maze learning, avoidance behavior, escape learning, rats 574.
 caffeine, effects on avoidance learning, mice 1604.
 effects on mother-offspring interactions, *Aves* 198.
 imprinting, auditory communication, embryos, *Anas* 2907.
 light, brain function asymmetry, chickens 3144.
 mother-offspring interactions, vocalization behavior, chickens 3589.
 phenobarbital, effects on activity patterns, mice 1609.
 progesterone, effects on sexual behavior, rats 1054.
 protein deficiency, effects on development stress, effects on social behavior, sheep 1620.
Prenates,
 hypoxia, conditioned response, reflexes, rats 1674.
Preputial area,
 lesions, recovery of function, copulation, rats 4244.
 testosterone implants, lordosis behavior, females, hamsters 1053.
Presbycusis,
 infanticide, reproductive strategy, breeding success, mathematical models 2509.
Presbycusis entellus,
 competition, agonistic behavior, social structure, social hierarchy 2595.
 competition, social rank 98.
Presbycusis pileatus,
 social behavior, activity patterns, feeding, habitat utilization, Bangladesh, Madhupur Forest 2589.
Presbycusis potenziani,
 social organization, population density, Sumatra, Siberut 1. 3640.
Preservation,
 conditioned response, maze learning, pentobarbital effects on, rats 2106.
Prevention,
 avoidance behavior response, rats 1755.
Prey,
 abundance, predatory behavior, predator-prey interactions, *Adalia bipunctata*, *Eucallipterus tiliae* 3508.
 acquisition, predatory behavior, tactile stimuli, visual stimuli, comparison, *Rana pipiens* 1448.
 acquisition, visual stimuli, tactile stimuli, comparison, lesions, optic tectum, *Rana pipiens* 2012.
 aggression, predatory behavior, mice 1515.
 attraction, burrowing behavior, *Cicindela willistoni*, USA, Arizona, Sulphur Springs Valley 2802.

Prey, (continued)

- capture efficiency, foraging behavior, *Cicindelidae*, *Colaptes auratus* 2702
- capture, humidity, chemical stimuli, predatory behavior, *Notiophilus biguttatus* 3640
- discrimination learning, attack, rats 2331
- escape behavior, *Mus musculus*, *Crotalus viridis* 2856
- escape behavior, orientation, *Euphausiidae* 3775
- feeding behavior, *Cnidaria*, *Coralliophila abbreviata*, *Coralliophila caribaea*, Discovery Bay, Jamaica 1403
- food selection, predatory behavior, *Agomus dorsale* 3509
- food selection, predatory behavior, *Aicido arthus*, Belgium, Lesse R. 3715
- food selection, predatory behavior, *Pardosa vancoveri* 2636
- food selection, predatory behavior, vision 2602
- juveniles, *Chelonia mydas*, feeding behavior, *Promicrops lanceolatus*, Tonga Islands 1460
- kiaomons, effects on predatory behavior, *Amblyseius fallax*, *Phytoseiulus macropilis* 1901
- localization, feeding behavior, mechanical stimuli, *Aplocheilus lineatus* 3077
- odors, chemoreception, food preferences, feeding behavior, *Homarus americanus* 2609
- odors, hunger effects on chemoreception, feeding behavior, *Crotalus viridis*, *Crotalus enyo* 2659
- odors, learning behavior, *Bufo boreas*, *Insecta* 1449
- orientation, auditory stimuli, predatory behavior, *Polimices tneei* 1407
- population density, predation effects on, predator-prey interactions, mathematical models 252
- population density, spatial distribution, predatory behavior, *Phytoseiulus persimilis*, *Amblyseius degenerans* 2606
- predator recognition, avoidance behavior, *Falco*, *Helogale undulata rufula*, *Trochus* 3766
- recognition, stimulus control, learning behavior, *Naja mossambica pallida* 3987
- size, food selection, predators, feeding behavior, competition, *Sorex araneus* 399
- spatial distribution, diel variations, foraging behavior, *Parulidae* 2690
- spatial distribution, predator-prey interactions, predatory behavior, *Phytoseiulus persimilis*, *Amblyseius degenerans* 2608
- vocalization behavior, predation effects on, *Chiroptera*, *Anura* 2280

Primates,

isolation effects on social behavior 1629

Primates,

- aggression, man, books 3374
- aggression, communication, visual communication, vocalization behavior, man, books 4494
- autecology, behavior, tropical environment, rain forests, Malaysia, books 3371
- behavior, conservation, Thailand 496
- behavior monitoring, electrical stimulation, telemetry, electronic equipment 4440
- central dominance, asymmetry, early experience 3132
- ethology, behavior development, ontogeny, bibliographies, books 4493
- eye movements stabilization, receptive field mapping, methodology 4442
- interspecific relationships, association, social behavior 2594
- social hierarchy, dominance, evolution 3645

Prionozide,

effects on autohaping, brain stimulation, rats 956

Prionodura newtoniana,

grooming, anting, new records 4469

Pristiphora erichsonii,

feeding behavior, host plants deterrents 313

Proactive interference,

delayed response, matching-to-sample, memory, forgetting, pigeons 1815

unfants, memory, forgetting, ontogeny, rats 1823

shock, escape learning, avoidance behavior, learned inactivity, rats 1735

Problem solving,cognitive ability, dogs, *Canis lupus lycaon* 2979

cognitive ability, rats 4017

cognitive ability, role, hippocampus, rats 1805

exploratory behavior, cognitive mapping, rats 4016

reinforcement schedules, pigeons 1775

social organization, feeding behavior, sympatric populations, *Saimiri sciureus*, *Callicebus moloch* 4018

synaptic membranes proteins, striate cortex, cortex (prefrontal), cortex (visual), rats 4171

trimethylol effects on, hippocampus damage, rats 4314.

Proboscidea (flavivirata),

feeding behavior, swimming behavior 2626

Procaine,

drug effects, locomotor activity, open-field behavior, rats 2165

Procambarus,

locomotor activity, giant axons effects on 818.

Procambarus clarkii,

chemical communication, agonistic behavior, pheromones 1

courtship, mating behavior 3489.

locomotor activity, loading effects on 674.

Procapra capensis,

olfactory perception, conspecifics 4114.

Procordulia amabilis,

thermoregulatory behavior, body temperature, New Zealand 2815.

Proctolin,

neurotransmitters, insects, effects on Mammalia behavior 836.

Procyon lotor,

activity patterns, foraging behavior, diel variations 2746.

feeding behavior, diets, seasonal variations, Canada, Quebec 2737.

feeding behavior, food selection, predation, USA, North Dakota 1491.

scent marking behavior, foraging behavior 3433.

Production,regulation, pheromones, seasonal variations, *Apis mellifera* 8.**Progeny,**

maze learning, maternal effects, nutrient deficiency, rats 522.

Progestone,

antagonism, adrenal gland steroids, extinction, avoidance behavior, rats 3313.

drug effects, lordosis behavior, rats 4380.

effects on aggressive behavior, *Peromyscus leucopus* 2333.

effects on maternal behavior, nesting behavior, genetic factors, mice 3848.

effects on sexual behavior, rats 3329.

effects on sexual behavior, sexual behavior, ovary, ablation, rats 1052.

intracranial, serum levels, sexual behavior, limbic system, lordosis behavior, females,

Progesterone, (continued)

rats 1040

mating behavior, estrous receptivity, olfactory organs ablation, females, rats 3640

plasma levels, sexual behavior, estrus, cattle 3326.

prenatal experience, effects on sexual behavior, rats 1054.

sexual behavior inhibition, estradiol implants, ovary, ablation, rats 1050.

testosterone, fear conditioning, extinction, emotional behavior, rats 1049.

withdrawal, maternal behavior, ovary ablation, maternal behavior 1968.

Progestin,

sexual behavior, hormones, therapy 3340

Progestins,

receptors, hypothalamus, cytosol, rats 1335.

Prolactin,

effects on aggression, maternal behavior, mice 2180

effects on aggressive behavior, females, hamsters 2340

effects on aggressive behavior, *Peromyscus leucopus* 2333

effects on grooming, neuroendocrine system, rats 2179.

effects on grooming, rats 3319

effects on mating behavior, copulation, rats 3316.

lordosis behavior inhibition, hyperprolactinemia, rats 1339.

Prolinophya marginata,

mating behavior, sperm storage 3514.

Promicrops lanceolatus,predation, feeding behavior, juveniles, *Chelonia mydas*, Tonga Islands 1460.predation, food organisms, *Chelonia mydas* 2682.**Propanolol,**

effects on, sleep (paradoxical), neurons, chemoreceptors, blocking, rats 771.

N-Propylcarbamophosphine,

drugs effects on copulation, males, rats 4373

Proscapiidae,

burrowing behavior, fossils, functional morphology, skeleton 4072.

Prosimii,

functional morphology, bone biomechanics, hip, thigh, jumping 806.

Prostaglandin E2,

drinking behavior, osmoregulation, rats 1965

Prostaglandins,

effects on drinking behavior, rats 2007.

effects on females mating behavior, *Rana pipiens* 150.effects on females sexual receptivity, *Anolis carolinensis* 1034.

effects on food intake, rats 1969

inducers, sleep, brain, chickens 925.

Protection,environmental conditions, parental behavior, brood care, *Euscorpis* 2516.social interactions, spatial distribution, sex differences, age effects, *Papio cynocephalus* 248**Protective behavior,**defense mechanisms, chemical communication, *Brachiura* 4.**Protein,**

plasma, transfusion, operant conditioning, rats 1683.

S-100 Protein,

correlation, avoidance learning, memory, nutrient deficiency, rats 4158.

Protein biosynthesis,

cyclohexamide effects on, memory inhibition, saccharin taste aversion learning, rats 4153

inhibition, short term memory, avoidance learning, mice 1828.

Protein deficiency,

diets, effects on learning behavior, rats 1793.

diets, effects on visual perception, *Macaaca mulatta* 1899

prenatal experience, effects on development

Protein status,reserves, energy requirements, feeding behavior, winter, *Lagopus mutus rupestris* 371**Protein-energy malnutrition,**

circadian rhythms, pineal body pigments, rats 758.

Proteins,

S 100, antiser, effects on, handedness, visual discrimination, rats 797.

central nervous system, conditioned response reflexes, rats 842.

circadian rhythms, endogenous stimuli, oscillators, cellular mechanisms 743.

deprivation, sociological aspects, ontogeny, maternal behavior, exploratory behavior, rats 524

food preferences, morphine effects on, rats 4386.

synaptic membranes, striate cortex, cortex (prefrontal), cortex (visual), problem solving, rats 4171

Proteles cristatus,

foraging behavior, diets, home range, Namibia, Namib Desert 3756.

Proteles angustus,

chemoreception, food organisms detection 4107.

Protolhaca staminea,

feeding behavior, pollution effects, oil pollution, USA, Washington Coast 2621.

Pseudaletia unipuncta,

females, sex pheromone, flight activity response, males 13.

pheromone emission, calling behavior 2276.

Pseudechis porphyriacus,

agonistic behavior, fighting 60

Pseudemys scripta,

physical activity, feeding behavior, winter, USA, South Carolina, Par Pond 3683.

Pseudocanthorhynchus spiniger,

food organisms, feeding behavior, tool use, Pan troglodytes 3760.

Pseudococcus calceolariae,

scent marking behavior, sex pheromone, trail pheromone, trail following behavior 1137.

Pseudohylesinus nebulosus,

sexual behavior, olfaction, bioacoustics, sexual maturity 1270.

Pseudolabrus celidotus,

mating behavior, breeding sites, breeding success 154.

Pseudomonas,chemotaxis, attractants, *Skeletonema costatum* 2997**Pseudomonas putida,**chemotaxis, β -ketoadipate, attractants 629.**Pseudomyrmex ferruginea,**

colonial characteristics, recognition pheromones, nests incompatibility 3380.

Pseudoparacitis tenuicollis,

locomotion, locomotor activity 670.

Pseudoplasia includens,predator-prey interactions, *Insecta* 293.

- Palia roseae**,
olfaction, orientation, host plants odors, *Daucus carota* 4103.
- Palloccybin**,
effects on behavior, physiology, monkeys 1022.
- Paliorhinus morio**,
reproductive behavior, parental behavior, learning behavior 199.
- Psychotropic drugs**,
effects on avoidance learning, escape behavior, dogs 2096.
effects on brain development, rats 3262.
effects on exploratory behavior, mice 1017.
intrauterine exposure, effects on behavior, rats 3262.
shock, effects on aggression, rats 70.
side effects, effects on motor activity, maze learning, mice, rats 975.
- Pternohyla fodiens**,
cocoon, constriction, water balance 4461.
- Pteroglossus toquatus**,
feeding behavior, seeds 1477.
- Pteromys volans**,
circadian rhythms, activity patterns, seasonal variations 759.
- Pteronarcys badia**,
drumming, auditory communication, geographical variations 3386.
- Pteronarcys dorsata**,
drumming, auditory communication 3386.
- Pteroptix**,
mating behavior, natural selection 144.
- Pterostichus nigrita**,
circadian rhythms, locomotor activity, entrainment, photoperiod 3098.
- Puberty**,
reproductive behavior, hormones, juveniles, *Saimiri* 195.
- Pugettia producta**,
crypsis, mimicry, preferences, algae 3771.
- Pulmosoa**,
escape behavior, neurons, tactile stimuli 3136.
- Punishment**,
behavior modification, climbing, cats 578.
behavioral contrast, septum lesions, rats 887.
extinction, fear conditioning, operant conditioning, sex difference, rats 1744.
isoproterenol, drinking behavior, anticonflict effects, rats 3954.
learning behavior, extinction, response acquisition, *Melipona quadrifasciata* antidiodes 2925.
operant response, drug effects, tranquilizers, tryptamine antagonists, rats 2162.
reinforcement, electrical stimulation, self-stimulation, monkeys 1711.
reinforcement, ontogeny, avoidance behavior, chickens 1720.
reinforcement, operant response, DRL schedule, rats 3942.
reinforcement, punishment, self-stimulation, monkeys 1711.
responsiveness, drug effects, pigeons 2109.
self-punitive behavior, rats 4475.
- Pupation**,
burrowing behavior, larvae, *Dytiscus verticalis* 2799.
- Purines**,
effects on avoidance behavior, reflexes, rats 1982.
- Purkinje cells**,
cerebellum, vermal zones, neurophysiology, locomotion, cats 3168.
- Purkinje fibers**,
electrophysiological recording, grasping, monkeys 879.
- Purocydin**,
drug effects, avoidance learning, retention, *Periplaneta americana* 2075.
drug effects, behavior modification, learning behavior, *Helix pomatia* 528.
- Putorius furo**,
predatory behavior, role, cholinergic mechanisms 4178.
- Pygoderma bilabiatum**,
habitat preferences, reproductive behavior, food preferences 2900.
- Pygoceles**,
sympatric populations, feeding behavior, Antarctica, King George I. 355.
- Pygoceles idelliae**,
feeding behavior, food preferences, Antarctica, King George I. 355.
- Pygoceles antarctica**,
feeding behavior, food preferences, Antarctica, King George I. 355.
- Pygoceles papua**,
feeding behavior, food preferences, Antarctica, King George I. 355.
reproductive behavior, breeding success, Marion Island 160.
- Pyramidal tracts**,
hippocampus, trimethyltin effects on, memory, maze learning, rats 4313.
- 2-Pyridylethylamine**,
effects on aggressive behavior, foot shock, rats 988.
- Pyrriglena leuconota**,
feeding behavior, territorial behavior, social interactions, subordination 512.
- Pyrilamine**,
intracranial self-stimulation, hypothalamus, rats 3220.
- Pyridilamine**,
effects on discrimination learning, timing, mice 3236.
- Pyrolysis products**,
toxicity, escape behavior, rats 3261.
- Pyrrhocorax pyrrhocorax**,
feeding behavior, food organisms, burnt ground, *Hepialus juveniles* 2713.
- Pyrrhula pyrrhula**,
feeding behavior, carnivory 2718.
- Pyruvate dehydrogenase (liponamide)**,
training cortex (frontal) enzyme activity, phosphorylation, rats 2004.
- Quantitation**,
drug effects, pharmacology 2070.
- Quazepam**,
motor activity control, cerebellum, mice 4173.
- Queens**,
cambialism, population regulation, colonies, *Hymenoptera* 220.
castes, colonial characteristics, *Lasioslossum zephyrum* 2567.
effects on aggregation behavior, chemical stimuli, *Myrmica rubra* 1531.
effects on workers mating behavior, *Lasioslossum zephyrum* 1240.
nest building, nesting behavior, *Dolichovespula saxonica* 2780.
pheromones, effects on castes, social behavior, *Apis mellifera* 1363.
sex pheromone, extracts, attractancy, workers, *Apis mellifera ligustica* 3389.
sterility, fertility, social organization, *Leptothorax provancheri* 1259.
swarming behavior, pheromones, effects on swarming behavior, *Apis mellifera* 217.
- Queens, (continued)**
Vespa maculifrons, *Vespa germanica*, *Vespa vulgaris*, *Vespa vidua*, nest building, culture, laboratories 162.
workers, social behavior, colonial characteristics, *Apis mellifera* 1217.
- Quelea quelea**,
feeding behavior, food intake 3701.
- Quinine**,
effects on food consumption, *Onychomys leucogaster* 1501.
- Quipazine**,
antagonism, drug effects, metoprolol, operant response, rats 2134.
drug effects, morphine tonic immobility, juveniles, chickens 1980.
effects on activity patterns, neonates, rats 4341.
effects on locomotor activity, mediation, dopamine receptors, 5-hydroxytryptamine receptors, rats 4343.
effects on sleep (REM), cats 3303.
- Quiscalus lugubris**,
feeding behavior, food preferences, Anolis, Grenada 351.
- Quiscalus quiscula**,
habitat preferences, nest building, urban environment 174.
- Rabbits**,
alcohol effects on H-reflex, motor activity 2074.
arousal, hypothalamus neurons, electrophysiological recording 3167.
auditory perception, auditory stimuli, neurophysiology 3171.
cardiac conditioning, latent inhibition, CS intensity effects on 1753.
classical conditioning, age effects on, conditioned response 2936.
classical conditioning, associative learning, motivation, nictitating membrane response conditioning 1762.
classical conditioning, nictitating membrane response conditioning, dorsolateral pons lesions effects on 4233.
classical conditioning, role, cerebellum 1993.
cortex (occipital) lesions, visual discrimination, visual perception 3194.
defensive behavior, vasoactive peptides, ESB, hypothalamus (ventromedial) 2062.
hippocampus lesions, classical conditioning 4249.
hippocampus, neurophysiology, avoidance learning, conditioned response 572.
learning behavior, feedback, biomechanics, heart rate 762.
memory, cerebellum ablation, effects on eyelid conditioning 4177.
naloxone effects on food consumption 3265.
neurons, cortex (visual), neurophysiology, visual stimuli, appetitive behavior 2008.
neurophysiology, conditioned response, locomotor activity, globus pallidus, striate cortex 3172.
nictitating membrane response conditioning, CS (compound) 555.
nictitating membrane response conditioning, electrical stimulation, latency 3950.
nictitating membrane response conditioning, inhibition, naloxone 4353.
nictitating membrane response conditioning, intracranial chemical stimulation, scopalamine, hippocampus, septum 838.
nictitating membrane response conditioning, restiform body lesions effects on 4228.
nictitating membrane response conditioning, second-order schedule, second-order conditioning, serial compound conditioning, variable interval schedule, reinforcement 1702.
noise effects on food consumption 1924.
olfactory stimuli conditioning, olfactory bulb EEG 4188.
opiates effects on amygdala, cardiac conditioning 928.
preconditioning, UCS, effects on, eyelid conditioning, associative learning 1694.
reproductive behavior, fertility 1321.
reversal learning, cortex (cingulate) EEG 3161.
RNA biosynthesis, DNA biosynthesis, limbic system, reflexes conditioning effects on 786.
suckling behavior, olfactory stimuli, mother-offspring interactions 3596.
- Radar**,
monitoring methodology, electronic equipment, activity patterns, microwave radiation, remote sensing 1079.
- Radiation**,
effects on mating behavior, fecundity, competition, males, *Culex tarsalis* 145.
intrauterine exposure, effects on visual discrimination learning, *Saimiri* 2924.
- X-Radiation**,
hippocampus, neonates, discrimination learning, rats 1955.
intrauterine exposure, effects on avoidance learning, rats 1613.
- Radio-tagging**,
home range, territorial behavior, seasonal variations, *Capreolus capreolus* 2365.
methodology, movements, aquatic environment, *Chelonidae* 4423.
movements, breeding, *Chelonia mydas* 4041.
movements, haulout behavior, *Phoca vitulina*, Alaska Gulf 3023.
movements, methodology, aberrant behavior, *Aythya valisineria* 4425.
movements, *Trichosurus vulpecula*, *Lepus europaeus*, *Capra hircus* 4428.
telemetry, electronic equipment, tracking, activity patterns, wildlife 4429.
- Radioimmunoassay**,
thyroid hormones, serum levels, hibernation behavior, thyroidectomy, *Spermophilus richardsoni* 1044.
- Rage**,
intracranial chemical stimulation effects on, glutamate, midbrain, hypothalamus, cats 4274.
- Rain forests**,
tropical environment, autecology, behavior, books, *Primates*, Malaysia 3371.
vegetation patterns, home range, activity patterns, *Hylobates*, Indonesia 2871.
- Rallus aquaticus**,
sheltering behavior, British Isles, Aberdeen 3862.
- Ramphastos sulfuratus**,
feeding behavior, seeds 1477.
- Ramphastos swainsonii**,
feeding behavior, seeds 1477.
- Rana blairi**,
mating behavior, auditory communication, isolation, hybrids, *Rana pipiens* 31.
- Rana esculenta**,
optic tectum ganglia, electrophysiological recording, visual field 4186.
visual perception, physiology, neurons 828.
- Rana heckscheri**,
larvae, schooling behavior, feeding, phototaxis, rheotaxis 226.
- Rana nigromaculata**,
visual stimuli response, correlation, neurons, optic nerve 714.
- Rana pipiens**,
lesions, optic tectum, visual stimuli, tactile stimuli, prey acquisition 2012.

Rana pipiens, (continued)

maternal behavior, auditory communication, isolation, hybrids, *Rana blairi* 31
 mating behavior, females, hormones effects on 150
 predatory behavior, prey acquisition, comparison, tactile stimuli, visual stimuli 1448

Rana sylvatica,

mate selection, males, competition 151
 reproductive strategy, oviposition synchronization, breeding success 3525

Rana temporaria,

auditory stimuli, analytical techniques, cortex (auditory), midbrain, neurons 732
 EEG, activity patterns, orientation, defensive behavior 3140
 tonic immobility, temperature effects on 4484

Ranatra linearis,

predatory behavior, visual stimuli, mechanical stimuli, molting 3669

Random interval schedule,

operant response, attention task, alternation learning, contingency, sensitivity, man 1710

Random ratio schedule,

operant response, attention task, alternation learning, contingency, sensitivity, man 1710

Range,

feeding behavior, food composition, comparative studies, Meliphaidae, New Zealand 403
 foraging behavior, visual communication, dialects, *Apis mellifera carnica*, *Apis mellifera ligustica* 2268
 migrations, autumn, Syrphidae, Switzerland 4038
 territorial behavior, parasitic populations, *Canis lupus*, *Canis latrans*, Canada, Alberta 3475

Rangifer tarandus,

avoidance behavior movements, motor vehicles effects on 491
 food organisms, feeding behavior, winter, *Canis lupus pambasileus* 404
 movements, oil and gas industry pipelines effects on, USA, Alaska 2864
 peary, social behavior, play, environmental effects, helicopters, juveniles 241
 predation, surplus killing, *Canis lupus*, USA, Alaska 3735
 sexual behavior, courtship, sex hormones, blood levels, odor, urination 190

Rangifer tarandus pearyi,

maternal behavior, nursing, suckling behavior 3598

Rangifer tarandus tarandus,

mother-offspring interactions, maternal behavior 2546
 mother-offspring interactions, recognition, olfactory perception 3597

Ranging behavior,

diets, *Colobus badius rufomitratus*, Kenya 1576
 habitat utilization, *Canis lupus*, USA, Minnesota, Superior National Forest 3821
 home range, seasonal variations, *Ursus americanus* 2854
 reproduction, survival, sheep 4457
 social behavior, *Callithrix humeralifer* 246
 social behavior, urban environments, dogs 2216

Randae,

avoidance learning, passive avoidance, operant conditioning, fighting, shock 1718

Raphae nuclei,

lesions, drug effects, clonidine, avoidance behavior, locomotor activity, rats 970

lesions, hormones, circadian rhythms, locomotor activity, rats 904

Raphe nuclei,

mechanisms, chlordiazepoxide effects on anxiety, rats 4371

Rates,

administration, drug effects 2068
 administration, drug effects 2069
 administration, drug effects 2071
 administration, drug effects, historical account 2072
 drug effects, conditioned response, benzodiazepines 2067
 response, reinforcement, variable interval schedule, drug effects, amphetamines, rats 2161

Rats,

ablation, cortex, age effects, feeding behavior, grooming, sexual behavior, physical activity 1956
 ablation, vagus nerve, cholecystokinin, exploratory behavior 3312
 acetic acid, lead acetate, effects on open-field behavior, activity patterns 4296
 acetylcholine, choline, levels, biosynthesis, hippocampus, striate cortex, avoidance learning 4179
 acetylsalicylic acid, effects on water intake, drinking behavior, hypovolemia 4393
 acoustic startle response, deprivation, food availability effects on 4118
 acoustic startle response, visual perception, ontogeny 1615
 acquisition, reinforcement schedules, partial reinforcement extinction effect 1632
 acrylamide effects on operant conditioning, activity patterns 4306
 activity patterns, hormones effects on 1058
 activity patterns, ibotenic acid effects on 4331
 activity patterns, imipramine effects on, intraterine exposure 3237
 activity patterns, oxprenolol, diazepam effects on 976
 activity patterns, solar eclipse effects on 2859
 activity patterns, stress effects on 1115
 activity patterns, 2-ethoxyethanol effects on, intraterine exposure 4325
 adjunctive behavior, stimuli generalization, schedule-induced behavior, polydipsia 1784
 adrenocorticotrophic hormone, fear, aggressive behavior, defensive behavior 1958
 age effects on haloperidol sensitivity, activity patterns 3302
 age, sex differences, acquisition, retention, conditioned response, taste aversion 2955
 aggression, early experience effects on, environmental conditions, burrows 1206
 aggression, intraspecific relationships, juveniles 1209
 aggressive behavior, apomorphine, clonidine chronic administration, modulation, 1-(*m*-chlorophenyl)piperazine 4369
 aggressive behavior, dominance 3456
 aggressive behavior, foot shock, histamine effects on 988
 aggressive behavior, inducers, drugs, apomorphine, stress 1000
 aggressive behavior, mouse killing, conditioning, gentling, lesions 2015
 aggressive behavior, muricide, tryptophan effects on 2336
 aggressive behavior, phenylclidine effects on 2102
 aggressive behavior, shock, cyproterone acetate effects on 2140
 agonistic behavior, analgesia, opioids 4165
 agonistic behavior, genetic factors, wild type, domestication 1212

Rats, (continued)

alcohol, blood levels, measuring techniques 4427.
 alcohol effects on stereotyped behavior, performance, operant conditioning 4334
 alcohol, effects on wheel running, locomotor activity 2103
 alcohol, intraterine exposure, effects on food intake, water intake 3257.
 alcohol preferences, effects on discrimination learning 4285
 alcohol, prenatal experience, effects on activity patterns 1610.
 alcoholic beverages, intraterine exposure, effects on wheel running, activity patterns 3251
 alternation learning, chemical stimuli, odors, reinforcement 3948
 alternation learning, olfactory discrimination, odors, drug effects, naloxone 2107
 alternation learning, visual discrimination, expectancy, response choice 549
 aluminum, parathryn, effects on locomotor activity, avoidance learning 4295.
 amnesia, avoidance learning, enkephalin effects on 1013.
 d-amphetamine intraterine exposure, effects on maze learning, locomotor activity 4301
 amphetamine isomers, effects on locomotor activity, neonates 4366
 amphetamine, synocarb, avoidance behavior, 5-hydroxytryptophan 4382.
 amygdala, ablation, operant conditioning, feeding, extinction 3207
 amygdala, cortex lesions, effects on taste aversion, nutrient deficiency sensitivity 2027
 amygdala lesions, effects on grooming, food consumption, locomotor activity 3190.
 analgesia, long-term, therapy, immunization, shock escape learning 4121.
 analgesia, shock, classical conditioning, opioids, mediation, nerves, hormones 4160
 analgesics, morphine, norepinephrine, naloxone, food intake, temperature effects, body temperature 1901
 angiotensin, effects on drinking behavior 1995
 apomorphine effects on memory, learning behavior, hippocampus glycoprotein biosynthesis 4337
 apomorphine, effects on stereotyped behavior, locomotor activity 3299.
 appetitive conditioning, classical conditioning, ESB 2942.
 appetitive conditioning, classical conditioning, septum activity, excitation, inhibition 839
 appetitive conditioning, CS, auditory stimuli 3939
 appetitive conditioning, discrimination learning 2940
 appetitive conditioning, gustatory stimuli, anticipation learning 3922.
 appetitive conditioning, hypothalamus electrical stimulation, reinforcement dissociation 918
 appetitive conditioning, odors, novelty, neonates 3927
 appetitive conditioning, operant conditioning, transfer learning 544
 appetitive conditioning, response topography, reinforcement 1684.
 approach behavior, ontogeny, males 2921
 area postrema lesions effects on taste perception, palatability 893.
 arginine vasopressin effects on emotional behavior 3359.
 arousal, amphetamine, hormones effects on 1002.
 arousal, factors affecting, juveniles 2224.
 arousal, hypothalamus neurons, electrophysiological recording 3167
 auditory discrimination learning, age effects on 2970
 auditory perception, auditory discrimination 3062.
 autoshaping, conditioned suppression, time allocation 1689.
 autoshaping, omission contingency, learning behavior, tracking 1706
 aversion learning
 aversion learning, CS freezing, shock 566
 aversion learning, cues, light, saccharin, associative learning, shock, avoidance behavior 1749
 aversion learning, defensive behavior, burying behavior 3975
 aversion learning, heart rate, blood pressure 1792
 aversion learning, morphine 1743
 aversion learning, shock reinforcement schedule preferences 3967.
 aversion learning, visual discrimination, food selection, conditioning, pretraining 1780
 aversion learning, visual stimuli, food, toxicosis 1751
 avoidance behavior, α -melanocyte stimulating hormone, cerebrospinal fluid, blood 4414
 avoidance behavior, anatomy, correlation, hippocampus, neurons, genetic relationship 802
 avoidance behavior, delay, signals, extinction, response prevention 1738.
 avoidance behavior, emotional behavior, conditioned response, neurophysiology, hypothalamus 3160
 avoidance behavior, escape behavior, hypertension 1957.
 avoidance behavior, escape behavior, polyurethane effects on 2098
 avoidance behavior, extinction, shock, response competition 3898
 avoidance behavior, fixed interval schedule, feedback stimuli 584
 avoidance behavior, motor activity, stress 2239
 avoidance behavior, open-field behavior, ontogeny, behavioral genetics 2913.
 avoidance behavior, paraoxon, isofluorophate effects on 3246.
 avoidance behavior, response, effects on prevention 1755.
 avoidance behavior, shock, operant conditioning, reinforcement 1680
 avoidance behavior, shock, reinforcement, temporal perception 1741
 avoidance behavior, toxins, cues, sampling, duration 1739.
 avoidance behavior, wheel running, social interactions 565.
 avoidance learning, β -endorphin, naloxone effects on 787
 avoidance learning, age effects, hypertension 1745
 avoidance learning, alcohol intraterine exposure effects on 4297.
 avoidance learning, associative learning, cues, taste, sound, shock 1750.
 avoidance learning, atmospheric conditions effects on, ionization 567.
 avoidance learning, chloramphenicol effects on, intraterine exposure 3230.
 avoidance learning, drug effects 3272
 avoidance learning, drug effects, 6-hydroxydopamine, latency, catecholamines 1734.
 avoidance learning, enkephalins effects on, opiates receptors role 3165.
 avoidance learning, escape behavior, performance, schedule effects on 1723.
 avoidance learning, extinction, cortex (prefrontal) lesions effects on 3193.
 avoidance learning, fear conditioning effects on 582.
 avoidance learning, flooding 3971.
 avoidance learning, memory, oxytocin analogs effects on 3164.
 avoidance learning, nutrient deficiency, thiamine, folic acid, pharmacology 573.
 avoidance learning, ontogeny 1618.
 avoidance learning, p-chloroamphetamine effects on 4389.
 avoidance learning, performance, dopamine receptors sensitivity effects on 978.
 avoidance learning, preference for signaled-shock 3978.
 avoidance learning, reinforcement schedules 3985.
 avoidance learning, reinforcement schedules, hippocampus development, juveniles 1730

Rats, (continued)

avoidance learning, retention, Kamin effect 3969
 avoidance learning, role, noradrenergic neurons 1990
 avoidance learning, sensitization, auditory stimuli 3970.
 avoidance learning, septum lesions, rearing isolation 580.
 avoidance learning, shock, activity patterns 3972.
 avoidance learning, shock, schedule, intensity 583.
 backward conditioning, defensive behavior, burying behavior 3932.
 behavioral contrast, reinforcement, appetitive conditioning 3933.
 behavioral contrast, reinforcement, appetitive conditioning, DRO schedule 3934.
 behavioral contrast, reinforcement, ontogeny, successive negative contrast, juveniles 2922.
 behavioral contrast, septum lesions, punishment, suppression 887.
 benzodiazepine antagonists, Ro 15-1788, effects on discrimination learning, amphetamine, pentobarbitone 4359.
 blocking, CS compound, go/no-go discrimination learning 1686.
 blocking, DRO schedule 2944.
 body weight, feeding behavior, food availability deprivation 3742.
 bombesin, intracranial chemical stimulation, effects on food intake 4174.
 brain damage, discrimination learning, recovery of function 2038.
 brain stem, mouth movements 4203.
 brain weight, environmental conditions, enrichment, undernutrition 3122.
 burrowing behavior, digging, operant response, reinforcement 1690.
 buspirone, effects on conflict behavior 3259.
 cadmium, chronic effects, aggressive behavior 63.
 caffeine, amitriptyline, diazepam effects on memory 3231.
 caffeine effects on operant response rate, reinforcement schedules 4287.
 caffeine effects on suckling behavior, orientation, activity patterns, juveniles 4309.
 cages, methodology, equipment 1090.
 cannabidiol effects on novelty fear, feeding behavior 4368.
 capsaicin effects on pain perception, avoidance behavior 4356.
 carbon effects on variable interval schedule response 2092.
 carbon dioxide, amphetamine, morphine, effects on memory, aging 4025.
 carbon monoxide effects on operant response, reinforcement schedules 4298.
 catecholamines effects on memory, avoidance learning 2989.
 catecholamines, physical activity, pons norepinephrine, drug effects, morphine, amphetamine 2142.
 cataplexy effects on stereotyped behavior, dopamine transport 2090.
 caudate putamen, 6-hydroxydopamine lesions, effects on food intake, water intake 3195.
 cerebropinal fluid, mediation, stereotyped behavior, neurotransmitters, substance P 867.
 chain schedule, fixed interval schedule, choice 3947.
 chemical stimuli, substantia nigra, effects on stereotyped behavior 3152.
 chemoreception, urine, testosterone, aggressive behavior, males 1184.
 chloridiazepoxide effects on anxiety, mechanisms, raphe nuclei 4371.
 chloridiazepoxide effects on food preferences, novelty 3283.
 chloroform effects on operant conditioning 3239.
 p-chlorophenylalanine, effects on 5-hydroxytryptamine, brain, aggression 2091.
 chlorpromazine effects on escape behavior, shock 2120.
 chlorpromazine effects on learning behavior 3235.
 cholecystokinin antisera, intracranial chemical stimulation, ventricles (cerebral), effects on, avoidance behavior 579.
 chronic effects, haloperidol, thioridazine, zotepine, stereotyped behavior 3258.
 chronic exposure, apomorphine effects on, stereotyped behavior, locomotor activity, biosynthesis, catecholamine 849.
 chronic exposure, lead, food deprivation, effects on, locomotor activity 1598.
 circadian rhythms, drug effects, α -bungarotoxin, suprachiasmatic nucleus, light effects, pineal gland, enzymatic activity 764.
 circadian rhythms, locomotor activity, reproductive behavior, estrus 3104.
 circadian rhythms phase shift effects on amnesia, avoidance learning performance 615.
 circadian rhythms, photoperiods, drug effects, lithium, wheel running 1938.
 circadian rhythms, protein-energy malnutrition, pineal body pigments 758.
 circadian rhythms, sleep deprivation, neurotransmitters, binding, forebrain 1942.
 circling behavior, phenobarbital effects on 4385.
 classical conditioning, analgesia, dorsolateral fimbria, opioids 4212.
 classical conditioning, blocking 3937.
 classical conditioning, conditioned response, hunger, sign-tracking behavior 2943.
 classical conditioning, effects on hippocampus neurons 868.
 classical conditioning, extinction 1697.
 classical conditioning, fear conditioning, US, CS 2186.
 classical conditioning, latent inhibition, potentiation 2941.
 classical conditioning, temporal discrimination 2939.
 classical conditioning, transfer learning, reinforcement schedule 554.
 clonidine effects on food consumption 3293.
 clonidine effects on locomotor activity 698.
 clonidine effects on locomotor activity, mediation, postsynapse α 2-adrenergic receptors 4346.
 cocaine effects on activity patterns, environmental conditions 3221.
 cognitive ability, food, reinforcement schedules, patterns, extrapolation 1677.
 cognitive ability performance, iron deficiency, discrimination learning 590.
 colliculus lesions, effects on feeding behavior, locomotor activity 3202.
 coliculus, neurophysiology, conditioned response, auditory stimuli 853.
 compound schedules, configurations, spontaneous alternation 1685.
 conditioned inhibition, fear, shock 3980.
 conditioned response, drinking behavior 2938.
 conditioned response, taste aversion learning, interference 1765.
 conditioned suppression, shock, apomorphine, diazepam effects on 4392.
 conditioning, defensive behavior, burying behavior, contextual control 3929.
 conditioning, intertrial interval, extinction 3895.
 conditioning, reflexes 3940.
 conditioning, reinforcement, conspecifics odors 4122.
 conditioning, reinforcement schedules, deprivation, extinction 3896.
 conspecific odors preferences, 6-hydroxydopamine effects on 929.
 conspecifics, attraction, social behavior, mobility, sexual dimorphism 2578.
 consummatory behavior, regulation, brain ablation effects on, methodology 902.
 contrafreezing phenomenon, feeding behavior 1506.
 coprophagy, nutrient deficiency, iron 3745.
 copulation, competition, social hierarchy 3562.
 copulation, mating behavior, prolactin effects on 3316.
 copulation, midbrain lesions effects on 908.
 copulation, pain perception, brain opioids 3123.
 cortex ablation, effects on motor activity, environmental effects 2029.

Rats, (continued)

cortex (anteromedial) lesions, effects on orientation, approach behavior 4241.
 cortex (auditory) ablation, conditioned response, auditory stimuli 3173.
 cortex, EEG, epilepsy, focal spikes 854.
 cortex (entorhinal) lesions effects on open-field behavior 2030.
 cortex (entorhinal) lesions, recovery of function, environmental effects 2020.
 cortex (frontal) lesions, neonates, effects on activity patterns 2058.
 cortex, lesions, effects on feeding behavior, sensorimotor ability 3198.
 cortex lesions, schedule-induced behavior, polydipsia 4238.
 cortex (sensorimotor) lesions, recovery of function, tactile discrimination learning 4239.
 cortex (visual), memory, conditioned response reflexes, brain proteins 842.
 corticoliberin, effects on food intake, grooming 4408.
 corticosterone, plasma levels, stress, novelty effects on 4167.
 cross-modal transfer learning, temporal perception, discrimination learning 2972.
 cyanide effects on central nervous system, reflexes 1994.
 cyclic GMP effects on, aggressive behavior 1953.
 cycloheximide effects on memory inhibition, saccharin taste aversion learning, protein biosynthesis 4153.
 defensive behavior, attack 3453.
 defensive behavior, avoidance learning 1200.
 defensive behavior, burying behavior, aversive stimuli 3833.
 defensive behavior, burying behavior, aversive stimuli 3834.
 defensive behavior, burying behavior, avoidance behavior, shock 1746.
 defensive behavior, burying behavior, piling behavior, avoidance behavior, shock 1733.
 defensive behavior, burying, shock, avoidance behavior, preexposure 1728.
 defensive behavior, ontogeny, response, external stimuli 2920.
 dehydration effects on grooming, water loss 2869.
 delayed response performance, cortex (prefrontal) lesions effects on 909.
 deprivation, hunger, reinforcement, incentive contrast, response, cues 1703.
 diabetes insipidus, water intake, naloxone effects on 2125.
 diazepam effects on fear conditioning 4374.
 diets, short-term variations, effects on motor activity 1500.
 5,7-dihydroxytryptamine, effects on, operant response 1039.
 5,7-dihydroxytryptamine lesions, hypothalamus, effects on muricide 4246.
 dimethylmercury, effects on social behavior, nervous system toxicity 4328.
 discrimination learning, acquisition, reinforcement schedules 1782.
 discrimination learning, appetitive conditioning, retention 4002.
 discrimination learning, association, serial pattern learning, alphabet 2974.
 discrimination learning, auditory discrimination 2969.
 discrimination learning, biochemical transfer, mRNA 4166.
 discrimination learning, conditioned response, isomers, N-allylnormetazocine 2139.
 discrimination learning, drugs, γ -hydroxybutyrate 3278.
 discrimination learning, drugs, pentobarbitone 1010.
 discrimination learning, intertrial interval 3999.
 discrimination learning, lesions, hippocampus, neonates 4229.
 discrimination learning, mapping, brain lesions effects on 595.
 discrimination learning, noise intensity effects on 722.
 discrimination learning, occasion-setting 4000.
 discrimination learning, performance, early experience effects on 593.
 discrimination learning, prey, attack 2331.
 discrimination learning, reinforcement manipulation, tranquilizers 1790.
 discrimination learning, reinforcement schedules 1788.
 diazepam, learning, reinforcement, serial feature-positive discrimination, appetitive conditions 1701.
 discrimination learning, shock sensitivity, morphine effects on 989.
 discrimination learning, stimulus control, morphine, cyclozincine 1791.
 discrimination learning, stimulus preexposure, septum lesions 4007.
 discrimination learning, taste discrimination, sweeteners 3084.
 discrimination learning, transfer learning 1787.
 discrimination learning, transfer learning, acquisition, performance 4001.
 discriminative stimuli, hallucinogens, drug effects 2158.
 dopamine agonists, amphetamine, apomorphine, stereotyped behavior, estradiol benzoate 3311.
 dopamine effects on locomotor activity 4207.
 dopamine, intrastriatal chemical stimulation, striate cortex, effects on stereotyped behavior 1019.
 dopamine levels, effects on intracranial self-stimulation 4243.
 dopamine metabolism, striate cortex, substantia nigra, avoidance learning 4214.
 dopamine, midbrain lesions, locomotor activity, open-field behavior 3175.
 dopamine, spinal cord, tail-flick response 4161.
 dopamine stereotyped behavior, drug effects, 5-hydroxytryptamine 947.
 drinking behavior, angiotensin effects on, hypertension 4202.
 drinking behavior, angiotensin, prostaglandins 2007.
 drinking behavior, autonomic ganglia, pineal body effects on 905.
 drinking behavior, conditioned response, measuring techniques 548.
 drinking behavior, hypothalamus lesions, dopamine 4195.
 drinking behavior, isoproterenol, punishment, anticonflict effects 3954.
 drinking behavior, methodology, equipment 4432.
 drinking behavior, ontogeny, ontogeny, drinking behavior, rats 1621.
 drinking behavior, osmoregulation, prostaglandin E₂, angiotensin II 1965.
 drinking behavior, stereotyped behavior, pipernoil effects on 4330.
 drinking behavior, sucrose solutions, naloxone effects on 2133.
 drinking behavior, thirst, angiotensin effects on 411.
 drinking behavior, water intake, angiotensin, structure-activity relationships 4156.
 drug effects, alcohol, prenatal experience, maze learning 2168.
 drug effects, AMPA, wet dog shakes, catalepsy, thermoregulation 2170.
 drug effects, amphetamine, stereotyped behavior 2143.
 drug effects, amphetamines, feeding behavior, anorexia nervosa, juveniles 2132.
 drug effects, amphetamines, variable interval schedule, reinforcement, response rates 2161.
 drug effects, antagonism, 2,5-dimethoxy-4-methylamphetamine, quipazine, metergoline, operant response 2134.
 drug effects, apomorphine, aggressive behavior, sleep (REM) deprivation 1005.
 drug effects, apomorphine, methamphetamine, licking behavior, sniffing 2127.
 drug effects, avoidance learning 2105.
 drug effects, bombesin, thermoregulation, operant response 945.
 drug effects, bromocriptine, dihydroergotamine, sleep and wakefulness, sleep (REM) 980.
 drug effects, bromocriptine, 6-hydroxydopamine, escape behavior, locomotor activity, juveniles 2167.
 drug effects, caffeine, stimulus control 2104.
 drug effects, caffeine, tactile stimuli, startle response, reactivity 2144.

Rats, (continued)

drug effects, chronic administration, amphetamine, nucleus accumbens, locomotor activity, tolerance 985
 drug effects, clonidine, avoidance behavior, locomotor activity, lesions, raphe nuclei 970
 drug effects, cocaine, procaine, lidocaine, locomotor activity, open-field behavior 2165
 drug effects, conditioned response, multiple schedule 2124
 drug effects, cydusine diphosphate choline, locomotor activity, dopamine neurons degeneration 1007
 drug effects, deanol, hemicholinium, behavior, neurotransmission 2163
 drug effects, diazepam, aversion learning, conditioned defensive burying, behavioral paradigms 2160
 drug effects, diazepam, avoidance behavior, learning behavior, memory, age effects 972
 drug effects, diazepam, schedule-induced behavior, operant response, shock 2126
 drug effects, etiracetam, acquisition, extinction, retention, open-field behavior 2157
 drug effects, grooming, wet-dog shakes 4281
 drug effects, melatonin, emotional behavior, open-field behavior 2146
 drug effects, methodology, water lick paradigm, conditioned suppression 3286
 drug effects, morphine, locomotor physical activity, conditioning 950
 drug effects, naloxone, food intake, chemoreceptors 946
 drug effects, naloxone, MIF-1 peptides, drinking behavior, sex differences 2156
 drug effects, operant response, self-stimulation 2115
 drug effects, opioids, antagonists, feeding 2150
 drug effects, orotic acid, chemical stimuli, avoidance behavior, memory 974
 drug effects, p-chloroamphetamine, hypothermia, ejaculation, salivation, irritability 2153
 drug effects, physostigmine, atropine, cues, discrimination learning 1006
 drug effects, pumozide, acquisition, operant response 2137
 drug effects, pumozide, attenuation, taste preferences, self-stimulation 2147
 drug effects, pumozide, drinking behavior, licking behavior 2123
 drug effects, pumozide, fixed interval schedule, reinforcement, food, ESB, rats 1929
 drug effects, scopalamine hydrobromide, UCS, aversion 2151
 drug effects, serotonin, inducers, predation mice, reversal learning 2083
 drug effects, tetrahydro- β -carboline, stereotyped behavior 948
 drug effects, tranquilizers, tryptamine antagonists, operant response, punishment 2162
 drug effects, tryptophan, muncide, feeding, drinking, locomotion, brain 5-hydroxytryptamine 2154
 drug effects, 5-hydroxytryptamine, food intake, taste aversion 2141
 drug effects, 6-hydroxydopamine, lesions, thalamus, activity patterns 998
 drug self-administration, cocaine, fixed interval schedule, body weight 2121
 drug self-administration modification, levorphanol, interference, metabolism, 5-hydroxytryptamine, catecholamine 4168
 drug self-administration, noninvasive, pharmacology, drug abuse man 2095
 drug self-administration, syringes, methodology 1091
 drug tolerance, homeostasis, role, classical conditioning 2145
 drug tolerance, morphine, conditioning, latency 2159
 drug tolerance, nicotine withdrawal, effects on, behavior 938
 drugs, alcohol, effects on maternal behavior 4387
 drugs, apomorphine, avoidance behavior, conditioning, memory, amnesia 981
 drugs, catecholamines, effects on emotional behavior 3275
 drugs, clozapine, haloperidol, response 986
 drugs, discrimination, training, operant response 1092
 drugs, inducers, desmethylimipramine, aggressive behavior, fighting, antidepressants 993
 drugs, morphine, enkephalins, effects on operant response 3274
 drugs, naloxone, N-propylorapomorphine, effects on copulation, males 4373
 drugs, sodium n-dipropylacetate, effects on stereotyped behavior, wet dog shakes 4381
 drugs, spermine, effects on food intake 3296
 DSIP locomotor activity, circadian rhythms, sleep 1962
 early experience, huddling, locomotor activity, emotional behavior 3880
 early experience, noise, effects on activity patterns 3878
 early experience, nutrient deficiency, iron, effects on food intake 519
 early experience, visual stimuli, effects on maze learning 1614
 EEG, opioids agonists effects on 4384
 ejaculation, hormones, naloxone effects on 2175
 electrical stimulation, amygdala, hippocampus, foot shock, memory, amnesia 917
 electrical stimulation duration, effects on, kindling behavior, interference, amygdala 919
 emotional behavior, central nervous system, benzodiazepines receptors, diazepam binding 4209
 emotional behavior, dopamine, rats, shock effects on 1020
 emotional behavior, learning behavior, reactivity, auditory stimuli, brain monoamines 2223
 β -endorphin, structure-activity relationships, shock responsiveness 2000
 enkephalins, effects on posture, asymmetry 1989
 environmental effects, lead, ontogeny, behavior, striatal dopamine neurons 1624
 epilepsy, ESB, 5-hydroxytryptamine, lesions, hippocampus, paroxysmal activity 1996
 epilepsy, hippocampus, maze learning 4190
 epilepsy, hippocampus neurophysiology, activity patterns 3163
 ESB discrimination, generalization 4264
 ESB, discrimination, hypothalamus (medial), central gray 4261
 ESB, hypothalamus (lateral), visual discrimination learning, reversal learning, reinforcement 3210
 ESB, intracranial self-stimulation, dienecephalon, operant conditioning 4255
 ESB, intracranial self-stimulation, reinforcement 4260
 ESB, intracranial self-stimulation, reinforcement, drug effects 4266
 ESB, kindling 4253
 ESB preexposure, effects on kindling 4252
 ESB reinforcement, drug effects 2050
 ESB, reticular formation, latent inhibition 2055
 ESB, self-administration, hypothalamus, escape behavior, aversion-amelioration 4263
 escape behavior, ethanol effects on, ethanol sensitivity 2138
 escape behavior, learned helplessness, depression 4464
 escape behavior, operant response, shock, fixed interval schedule 1740
 escape behavior, polyurethane decomposition effects on 3250
 escape behavior, pyrolysis products, toxicity 3261
 escape behavior, serotonin effects on 2002
 estradiol benzoate, effects on feeding behavior, drinking behavior 4410.

Rats, (continued)

estradiol effects on copulation reflexes, castration 2181.
 estradiol, sexual receptivity, lordosis behavior activation 1335.
 ethanol tolerance, learning 2136
 exploratory behavior, atropine effects on 3287.
 exploratory behavior, brain lesions, raphe nuclei, serotonin 2225.
 exploratory behavior, diazepam effects on 4364
 exploratory behavior, duration, social behavior, memory, copulation 1374.
 exploratory behavior, hippocampus lesions effects on 910.
 exploratory behavior, lithium effects on 2148.
 exploratory behavior, memory, hippocampus lesions effects on 2037.
 exploratory behavior, novelty, scopalamine effects on 3290.
 extinction, avoidance learning, fear, flooding 1634
 extinction, reinforcement, learned helplessness 1675.
 extinction, variable ratio schedule, continuous reinforcement 1635.
 fear conditioning, amnesia, hypothermia 4011.
 fear conditioning, escape behavior, shock 2927.
 fear conditioning, memory, sex hormones 2957
 fear conditioning, operant conditioning, punishment extinction, sex difference 1744
 fear conditioning retention, lesions effects on, amygdala, hippocampus 4227.
 fear conditioning, retention, visual stimuli 3839.
 fear conditioning, trace conditioning, interstimulus interval 1789.
 fear conditioning, UCS, shock, adaptations 569.
 feeding behavior, amygdala lesions 4231
 feeding behavior, circadian rhythms 4140
 feeding behavior, circadian rhythms, suprachiasmatic nucleus lesions 3204.
 feeding behavior, diazepam effects on 4365
 feeding behavior, diets, food preferences, estrus cycle, ovary ablation 397
 feeding behavior, drinking behavior, exploratory behavior 3755.
 feeding behavior, drinking behavior, regulation 3754.
 feeding behavior, emotional behavior, ESB effects on, hypothalamus (lateral), tail pinch 4463
 feeding behavior, food intake inhibition, 5-hydroxytryptamine, hypothalamus 1966.
 feeding behavior, food intake, role, hypothalamus 1999.
 feeding behavior, food preferences, nutrients, drug effects, naloxone 983.
 feeding behavior, lesions, amygdala, appetite, satiety, hunger 2036.
 feeding behavior, naloxone effects on 2110.
 feeding behavior, obesity, food intake 3752.
 feeding behavior, olfactory perception effect on 408
 feeding behavior, ontogeny, external stimuli effects on 1516.
 feeding behavior, periodicity, metabolism effects on 1509.
 feeding behavior, physiology, correlation analysis, methodology 401.
 feeding behavior, reinforcement, anorectic agents, drug effects 4351.
 feeding behavior, tail pinch stress effects on 4478.
 feeding behavior, thiamin deficiency, food spillage, food intake 3757.
 females scent marking behavior, exploratory behavior, chemical stimuli effects on, males androgen 3572.
 fenethrothion effects on activity patterns 2099
 fenethrothion effects on motor activity 3247
 fixed time schedule, adjective behavior, schedule-induced behavior, polydipsia 1676
 fluid intake, licking behavior, measuring techniques 4433
 6-fluorotryptophan effects on sleep and wakefulness 3269.
 food, alcohol, reinforcement 3928
 food aversion, classical conditioning 581
 food consumption, γ -aminobutyric acid analogs effects on 3153.
 food consumption, circadian rhythms, photoperiods effects on 1513.
 food consumption, drug effects, role, substantia nigra neurons 1988.
 food deprivation, drugs apomorphine, inducers stereotyped behavior 992.
 food deprivation, taste preferences 3925.
 food hoarding, cadaverine effects on 1507.
 food intake effects on activity patterns, obesity, genetic control 4488
 food intake, feeding behavior, dopamine, dynorphin-(1-13) effects on 4377
 food intake, glucose, intracranial chemical stimulation effects on 3116.
 food intake, glucose metabolism, allofan effects on, ventricle (fourth) 4196.
 food intake, nutrients, regulation, effects on food preferences 1488
 food intake, physical activity, sex differences 3758.
 food intake, prostaglandins effects on 1969.
 food intake, regulation, cholecystokinin, bombesin, body weight 3741.
 food intake, regulation, obesity, hypothalamus 4189
 food intake, somatostatin effects on 1033
 food intake, sucrose effects on 3746
 food intake, sucrose effects on, diets 3750
 food intake, taste aversion, drug effects, bombesin, sodium chloride, lithium chloride 977
 food intake, temperature effects on, early experience 3749.
 food intake, triglycerides infusion, satiety, taste aversion, conditioned response 3759.
 food intake, water intake, opiates effects on 955.
 food preferences, fats, morphine effects on 4386.
 food preferences, novelty, benzodiazepine effects on, γ -aminobutyric acid role 3292
 food preferences, novelty, chlorthalidoxepine effects on 4361.
 foot shock sensitivity, 5-hydroxytryptamine depletion, medial forebrain bundle lesions, neurotoxins 884
 forebrain transplantation, effects on behavior 4172.
 formic ablation effects on discrimination learning 2039.
 free operant avoidance, effects on response 585
 free operant avoidance, toluene effects on 2089.
 frustration, running, blocking 1104.
 glucose effects on activity patterns, heat shock 3121.
 glutamine effects on activity patterns, stereotyped behavior 4218.
 glycerol effects on avoidance behavior, activity patterns 3238
 gyno-go discrimination learning, stimulus control, blocking 4003.
 grooming, corticotropin, dopamine role 4206.
 grooming, hippocampus lesions, ACTH effects on 2031
 grooming, hippocampus lesions, ACTH effects on 2043
 grooming, water immersion effects on 3364
 habituation, auditory stimuli, ultrasonics 1920.
 habituation, classical conditioning, CS, UCS 2926.
 habituation, extinction, shock 3897.
 habituation, sensory stimuli, acoustic startle response 531.
 hallucinogens effects on responsiveness, neurophysiology 2164.
 hallucinogens effects on responsiveness, neurophysiology 2169.
 hallucinogens, N,N-dimethyltryptamine, effects on schedule-induced behavior 3298.

Rata, (continued)

- haloperidol effects on food intake, body weight 2087.
- haloperidol effects on open-field behavior 937.
- handling effects on tactile stimuli reactivity 3086.
- heart rate, classical conditioning stimuli 4119
- hippocampus activity, activity patterns 4194
- hippocampus, cortex lesions, effects on memory, maze learning 2041.
- hippocampus electrical stimulation effects on memory, maze learning 1829.
- hippocampus epilepsy, memory, maze learning 4023.
- hippocampus lesions effects on exploratory behavior, startle response, habituation 2032.
- hippocampus lesions, effects on latent learning 2017.
- hippocampus lesions, effects on memory, maze learning 2014.
- hippocampus lesions, intracranial recording 2023.
- hippocampus, memory, spatial discrimination learning 3166.
- hippocampus, neurophysiology, theta rhythms 3150.
- hippocampus, role, problem solving 1805.
- histamine, intracranial chemical stimulation, effects on open-field behavior, exploratory behavior 4169.
- homing behavior, food deprivation effects on 1626.
- homovanillic acid effects on locomotor activity, orienting response 2088.
- hormones, corticotropine, effects on maze learning 2973.
- hormones effects on lordosis behavior, ablation adrenal gland 2177.
- hydrogine effects on intracranial self-stimulation, motor activity, stereotyped behavior 3295.
- 6-hydroxydopamine effects on activity patterns, catecholamines 3174.
- 6-hydroxydopamine lesions, locus coeruleus, effects on startle response 3200.
- 5-hydroxytryptamine effects on drinking behavior, alcohol, mechanisms 4208.
- 5-hydroxytryptamine receptors, hallucinogens effects on appetitive conditioning 4360.
- hyperactivity, attenuation, amphetamine effects on 3288.
- hyperactivity, 6-hydroxydopamine, social environment, neonates 3170.
- hyperphagia, naloxone effects on 2114.
- hypertension, genetic control, handling effects on, early experience 3851.
- hypothalamus (dorsomedial), amygdala lesions, effects on olfactory discrimination learning 2045.
- hypothalamus lesions, effects on food intake 4242.
- hypothalamus lesions, hyperphagia, insulin 4155.
- hypothalamus (medial) lesions effects on obesity, hyperactivity, social environment role 2028.
- hypothalamus (medial) lesions, hyperphagia, atropine effects on 2042.
- hypothalamus (ventromedial) lesions effects on, food intake, taste perception 4221.
- hypothermia effects on memory, avoidance learning 1820.
- hypoxia, prenatals, conditioned response, reflexes 1674.
- impraimine chronic administration, effects on clonidine stereotyped behavior 4333.
- infanticide, maternal behavior, sex hormones, offspring 1351.
- inhibition, memory, spatial discrimination learning, maze learning 1818.
- instruments, sensors, locomotion, stereotyped behavior 1093.
- intake, water, brain, hypodipsia, lesions, thirst 402.
- interocular transfer, visual perception, brain commissures, lesions, corpus callosum 899.
- interspecific relationships, aggressive behavior, mice 1204.
- interstimulus interval, classical conditioning 1761.
- intracranial chemical stimulation, AMPA, substantia nigra, catalepsy 795.
- intracranial chemical stimulation, cholecystokinin octapeptide, avoidance behavior, latency 930.
- intracranial chemical stimulation, enkephalin drug effects, activity patterns 949.
- intracranial chemical stimulation, morphine, hypothalamus (ventromedial), feeding, norepinephrine 2064.
- intracranial chemical stimulation, naloxone, hypothalamus (lateral), ventricle (lateral), drinking 2065.
- intracranial chemical stimulation, reinforcement, chlorpromazine, potentiation, naloxone 2061.
- intracranial chemical stimulation, self-stimulation, drug effects, desipramine 2118.
- intracranial chemical stimulation, 5-hydroxytryptophan, behavior sensitivity, neurotransmitters 792.
- intracranial reinforcement, morphine, conditioning, mechanisms 4378.
- intracranial self-stimulation, acquisition, operant conditioning, cerebellum pathways 4262.
- intracranial self-stimulation, age effects on, amphetamine 4280.
- intracranial self-stimulation, D-amphetamine, Δ^9 -tetrahydrocannabinol 4272.
- intracranial self-stimulation, desipramine effects on 3294.
- intracranial self-stimulation, drug effects 3220.
- intracranial self-stimulation, drug self-administration, tegmentum, morphine, mediation, opiate receptors 3273.
- intracranial self-stimulation, drugs, reinforcement 4273.
- intracranial self-stimulation, drugs, reinforcement 4275.
- intracranial self-stimulation, enkephalin, leucine-, reinforcement 4268.
- intracranial self-stimulation, environmental effects 3159.
- intracranial self-stimulation, ESB, apomorphine effects on 4265.
- intracranial self-stimulation, extinction 2053.
- intracranial self-stimulation, food deprivation 2052.
- intracranial self-stimulation, foot shock effects on 4259.
- intracranial self-stimulation, hypothalamus, central gray, approach behavior, escape behavior 2051.
- intracranial self-stimulation, hypothalamus, energetics 4257.
- intracranial self-stimulation, hypothalamus (lateral), sex differences 2047.
- intracranial self-stimulation, hypothalamus, memory, sensory reinforcement 3215.
- intracranial self-stimulation, medial forebrain bundle 2059.
- intracranial self-stimulation, reinforcement asymmetry, drug effects, amphetamine, behavior 973.
- intracranial self-stimulation, substantia nigra, amphetamine, mechanisms 4269.
- intracranial self-stimulation, substantia nigra, tegmentum, striate cortex lesions effects on 4258.
- intracranial self-stimulation, thalamus 4254.
- intragastric infusion, equipment 4434.
- intrauterine exposure, alcohol, effects on avoidance learning 3279.
- intrauterine exposure, carbon monoxide, effects on learning behavior performance 1608.
- isolation effects on social behavior 1617.
- isolation effects on valproic acid sensitivity, 5-hydroxytryptamine metabolism 4357.

Rata, (continued)

- juveniles, feeding behavior, lesions, hypothalamus (dorsomedial), diets, nutrition 892.
- juveniles, high fat diet effects on food preferences 1446.
- juveniles, intracranial self-stimulation, reinforcement 2048.
- juveniles, social behavior, amygdala lesions 886.
- kainic acid effects on stereotyped behavior, circling behavior 3233.
- ketamine effects on locomotor activity, pain perception, mediation 4332.
- kindling, ESB, amygdala 2049.
- latency, avoidance learning, conditioned response 1731.
- latent inhibition, fear conditioning, heart rate 1636.
- lead acetate drug effects discrimination, intrauterine exposure 1605.
- lead effects on learning behavior, hippocampus, juveniles 3228.
- lead effects on lithium induction polydipsia, juveniles 3256.
- lead intrauterine exposure effects on learning behavior 4299.
- lead nitrate, intrauterine exposure, open-field behavior, avoidance learning 4324.
- learned helplessness, avoidance learning, depression 1729.
- learning behavior, amphetamine intrauterine exposure effects on 525.
- learning behavior, appetitive conditioning, reinforcement 3935.
- learning behavior, caudate nucleus lesions effects on 2016.
- learning behavior, corticotropin effects on, immunological tolerance 4370.
- learning behavior, early experience effects on performance 600.
- learning behavior, locus coeruleus stimulation, dorsal noradrenergic fibers lesions effects on 911.
- learning behavior, maze learning, gravity, artificial weightness 601.
- learning behavior, memory, air, ionization 613.
- learning behavior, memory, immobilization, motor activity 2988.
- learning behavior, phenylketonuria effects on 1960.
- learning behavior, plant extracts effects on, *Bacopa monniera* 2971.
- learning behavior, RNA biosynthesis, hippocampus, cortex, drug effects, ethymizol 960.
- lesions, amygdala, 5-hydroxytryptamine, social behavior, aggressive behavior 895.
- lesions, area postrema, dopamine, agonists, antagonists 3149.
- lesions, cortex (prefrontal), age effects, behavior 2035.
- lesions, cortex (visual), colliculus, orientation 3203.
- lesions effects on maze learning, substantia nigra, caudate putamen, reticular formation 3187.
- lesions, hippocampus, cortex (frontal), effects on spatial discrimination learning 4237.
- lesions, hypothalamus (dorsomedial), effects on, food intake, body weight 891.
- lesions, hypothalamus, effects on predatory behavior, ESB, midbrain 3188.
- lesions, hypothalamus, estrogens, feeding behavior, food intake, body weight 900.
- lesions, hypothalamus (medial), septum, nucleus accumbens, effects on muricide, gentling 4247.
- lesions, midbrain raphe nuclei, hormones, circadian rhythms, locomotor activity 904.
- lesions, olfactory bulb, muricide, irritability, open-field behavior 3189.
- lesions, striata terminalis, cortex (gustatory), conditioned response, taste aversion, retention 2021.
- lesions, striate cortex, neurons, substantia nigra, sensitivity, neurotransmitters 3157.
- lesions, ventricles (third), subfornical organ, drinking behavior 3206.
- licking behavior, conditioned suppression, classical conditioning 2951.
- literature reviews, aggressive behavior, forbrain lesions 882.
- locomotor activity, activity patterns, nicotine, methamphetamine, intrauterine exposure 3243.
- locomotor activity, activity patterns, social environment, isolation, habitat 1571.
- locomotor activity, brain blood vessels, mechanoreceptors 1985.
- locomotor activity, central nervous system, endrin effects on 951.
- locomotor activity, desipramine effects on 933.
- locomotor activity, discrimination learning, cadmium effects on 4300.
- locomotor activity, drug effects, neurotransmitters, nucleus accumbens 942.
- locomotor activity, emotional behavior, ontogeny, N-nitroso-N-ethylurea effects on, intrauterine exposure 2914.
- locomotor activity, exploratory behavior, brain, hippocampus, lesions, drug effects, kainic acid, pharmacology 901.
- locomotor activity, fluphenazine decanoate, amphetamine effects on 4340.
- locomotor activity, hyperactivity, drugs, lithium, amphetamine, induces 994.
- locomotor activity, kainic acid lesions, enzymatic activity, glutamic acid decarboxylase, substantia nigra 906.
- locomotor activity, lead, d-amphetamine effects on 3241.
- locomotor activity, limbic system lesions, drug effects 3196.
- locomotor activity, oxetremorine effects on, dopamine control 4198.
- locomotor activity, social environment, isolation, effects on, antidepressants 523.
- locomotor activity, stimulants, 6-hydroxydopamine lesions 890.
- lordosis behavior, drug effects, apomorphine, amphetamine, estrogen, progesterone 4380.
- lordosis behavior, females, intracranial chemical stimulation, progesterone, limbic system 1040.
- lordosis behavior, hormones effects on 1055.
- lordosis behavior, inhibition, prolactin, hyperprolactinemia, rats 1339.
- lordosis behavior, nutrient deficiency 3566.
- lordosis behavior, pargyline, inhibition, amine oxidase (flavin-containing), hypothalamus 4406.
- lordosis behavior, sexual behavior, GTP effects on 4176.
- luliberin effects on sexual behavior, males 3327.
- lysine metabolites effects on sleep, hexobarbital 3125.
- males, drug effects, β -endorphin, morphine, exploratory behavior, sexual behavior, social behavior 943.
- males effects on aggressive behavior, juveniles, olfactory stimuli imprinting 1202.
- malnutrition, avoidance behavior, biochemical characteristics, brain, maturation, neonates, stress, cold stress 575.
- malnutrition effects on avoidance learning, exploratory behavior, emotional behavior, vocalization behavior 1603.
- malnutrition effects on maternal behavior, nursing 205.
- malnutrition effects on, maternal behavior, nursing, heritability 206.
- marking, handling, effects on mast cells abundance 837.
- mate selection, social rank 3560.
- maternal behavior, juveniles malnutrition effects on 1353.
- maternal behavior, maternal effects, experience, perous state, retention 1326.
- maternal behavior, mother-offspring interactions, licking behavior, urine consumption 2549.

Rats, (continued)

maternal behavior, noradrenaline depletion, hypothalamus 4193
 maternal behavior, progesterone withdrawal, estrogens, ovary ablation 1968
 mating behavior, population, sex differences 3576
 mating behavior, estrous receptivity, serotonin, progesterone, GABA, olfactory organs ablation, females 793
 mating behavior, lordosis behavior, sexual receptivity, sex hormones, LHRH analog 1338
 mating behavior, patterns, sex hormones, ablation, olfactory bulb 1328
 mating behavior, reproductive strategy 2506
 mating behavior, social behavior, copulation 3578
 maze learning, activity patterns 3998
 maze learning, avoidance behavior, escape learning, alcohol, prenatal experience 574
 maze learning, cortex lesions effects on, eye ablation 888
 maze learning, diets effects on, amino acids 1954
 maze learning, dopamine reinforcement effects on, intracranial chemical stimulation 597
 maze learning, drug effects, alcohol, hippocampus role 1998
 maze learning, hippocampus lesions effects on 3201
 maze learning, maternal effects, nutrient deficiency 522
 maze learning, memory, exploratory behavior 1817
 maze learning, memory, triethyltin sulfate, trimethyltin hydroxide effects on 4294
 maze learning, olfactory stimuli, scent marking behavior, trail following behavior 4015
 maze learning, short term memory, intertrial interval effects on 612
 maze learning, spatial memory 4009
 maze learning, strains, performance 1786
 maze learning, taste aversion learning, delayed response, preferences 551
 maze learning, visual stimuli effects on 1781
 memory, amnesia, hyperthermia 609
 memory, aversion learning, conditioning, reactivation 614
 memory, cues, imprinting 1822
 memory, discrimination learning, serial anticipation learning 4014
 memory, ESb, dentate gyrus effects on 3216
 memory, hedonic response, conditioning 4022
 memory, maze learning 1806
 memory, maze learning 1824
 memory, maze learning 4024
 memory, maze learning, scopolamine role 4029
 memory, opiate effects on, age effects 610
 memory, retention, recovery of function, classical conditioning, fear conditioning, lesions, amygdala, hippocampus, trauma 3184
 memory, role, serotonin 1827
 memory, serial order anticipation, hedonic response, reinforcement 1704
 methadone, intratriene exposure, effects on behavior, monoamines, brain 1606
 methylmercury, intratriene exposure, effects on activity patterns, neonates 4304
 methylmercury, intratriene exposure, effects on escape behavior, avoidance learning 1612
 methylmercury, intratriene exposure effects on learning behavior 4303
 methylxanthine, caffeine, effects on self-injury behavior 3266
 monosodium glutamate effects on activity patterns, arcuate nucleus necrosis 4322
 monosodium glutamate effects on motor activity, startle response 4339
 morphine, drug tolerance, mydriasis, eye 999
 morphine effects on activity patterns, tolerance 2122
 motor activity, alcohol \pm amphetamine effects on, synergism 3234
 motor activity, alcohol, 2-ethoxyethanol, intratriene exposure effects on 4310
 motor activity, motor-offering interactions, separation 2915
 motor activity, motivation, estrus cycle effects on 1047
 motor activity, neurophysiology, benzene, d-amphetamine, toxicity testing 859
 motor activity, opioids effects on 3284
 motor activity, 6-hydroxydopamine, intratriene exposure 4170
 multiple schedule, omission training, tracking 1698
 multiple schedule, response, theories 1642
 muricide, sex differences, strains 2337
 naloxone effects on fear conditioning 2113
 naloxone effects on food consumption 3265
 naloxone effects on food intake, insulin, novelty 4394
 naloxone effects on learning behavior, ontogeny, intratriene exposure 1611
 naloxone effects on neurophysiology, water intake, food intake 1011
 naloxone, intratriene exposure, effects on maze learning, startle response, olfactory discrimination 3249
 naloxone, naltrexone, effects on food intake, reinforcement 4375
 naltrexone effects on food intake 4329
 nandrolol hydrochloride effects on activity patterns 2097
 neonates, spatial discrimination learning 4004
 neonates, X-radiation, hippocampus, discrimination learning 1955
 nesting behavior, olfactory preferences, lemon odors, sex differences, early experience effects on 4117
 neurochemistry, activity patterns, drugs, 5-hydroxytryptamine, catecholamines, release factors 3178
 neuroleptics, antidepressants, effects on grooming, novelty 3291
 neuroleptics effects on autoshaping, brain stimulation 956
 neuroanatomy, cortex (occipital), environmental conditions, enrichment 3154
 neurophysiology, brain arousal, EEG, air ionization 864
 neurophysiology, brain, EEG, air ionization, sleep, arousal 863
 neurophysiology, brain, motor activity, head, drug effects, lesions 1984
 neurophysiology, jumping, shock, foot shock, clonidine, amphetamine, phenoxylbenzamide, pimozide 852
 neurostimulation, bombesin, β -endorphin, effects on avoidance behavior 4191
 neurotransmitters, 6-hydroxydopamine, hyperactivity, cortex (frontal), asymmetry 800
 nicotine effects on motor activity 1037
 noise effects on food consumption 1924
 noradrenaline, sympathetic nervous system, selection, stress 3147
 noradrenaline, 5-hydroxytryptamine, effects on activity patterns 4200
 nonamphetamine feeding behavior, diets palatability effects on 1511
 nursing, role, tactile stimuli 1352
 nutrient deficiency, iron, effects on thermoregulatory behavior, stereotyped behavior, dopamine 521
 nutrient deficiency, zinc, effects on associative learning 3882
 nutrient deficiency, zinc, effects on open-field behavior, age 3886
 observation methods, electronic equipment, spectral analysis, drug effects, amphetamines 2204

Rats, (continued)

odor aversion learning, olfactory bulb response effects on 1986
 odor thresholds, chemical stimuli, chemoreceptors, trigeminal nerve 4116
 odor thresholds, olfactory perception, chemical stimuli 4111
 olfactory bulb ablation, antidepressants effects on taste aversion learning 3264
 olfactory bulb ablation, brain enzymatic activity, drug effects, scopolamine 1964
 olfactory bulb ablation, effects on activity patterns 4225
 olfactory bulb ablation effects on parental behavior, sex differences 2026
 olfactory perception, habituation, urine odors 4112
 olfactory perception, ontogeny, feeding, site selection, juveniles 1625
 olfactory stimuli, effects on avoidance learning, olfactory bulb degeneration 1919
 omission training, autoshaping, appetitive conditioning 1681
 open-field behavior, anti-predator behavior, escape behavior, social behavior 3837
 open-field behavior, avoidance behavior, melanotropin fragments effects on 4363
 open-field behavior, brain catecholamines, emotional behavior 3158
 open-field behavior, elimination behavior, locomotor activity 3360
 open-field behavior, emotional behavior, rearing, isolation 3884
 open-field behavior, feeding, drug effects, anxiolytic drugs 2129
 open-field behavior, hyperactivity, drug effects, metabolites, fluphenazine, 7-hydroxy-fluphenazine, fluphenazine-sulfoxide 961
 open-field behavior, locomotor activity, amphetamine, amphetamine effects on 987
 open-field behavior, social behavior, hypoxia, external stimuli 1572
 operant conditioning, alternation learning 3997
 operant conditioning, avoidance learning, leg lowering 3974
 operant conditioning, conditioned reinforcement, blocking 3944
 operant conditioning, deprivation shift, reinforcement 2937
 operant conditioning, deprivation stimuli, cues, reinforcement 545
 operant conditioning, early experience effects on, malnutrition, food reinforcement 3885
 operant conditioning, fixed interval schedule, performance 3931
 operant conditioning, intertrial interval effects on responsiveness 547
 operant conditioning, learning behavior, reinforcement schedules 1682
 operant conditioning, licking behavior, behavioral contrast 1678
 operant conditioning, olfactory discrimination learning, drugs 3995
 operant conditioning, omission training, reinforcement 1691
 operant conditioning, quality-quantity interaction, taste aversion learning 1726
 operant conditioning, reinforcement devaluation, taste aversion learning 3951
 operant conditioning, reinforcement, interresponse time 541
 operant conditioning, reinforcement schedules, carbon monoxide effects on 3941
 operant conditioning, responsiveness, drugs effects on, statistical analysis 991
 operant conditioning, stress, amphetamine, phenylcyclidine effects on 4323
 operant conditioning, taste aversion, operant response, conditioned reinforcement 546
 operant conditioning, transfusion, plasma, protein 1683
 operant conditioning, water deprivation, hypertension, arousal 1696
 operant response, feeding stimuli, training, misbehavior 1693
 operant response maintenance, drugs effects on 1018
 operant response, topography, reinforcement schedules, food, water, fixed ratio schedule, fixed interval schedule 1699
 opiate receptors, substantia nigra par reticularis, regulation, striate cortex efferent pathway 4162
 osmoregulation, behavior, sodium chloride, ablation, amygdala, hypothalamus 794
 pain, escape behavior, avoidance learning, habituation 3976
 para-fascicular region lesions, maze learning, memory 3197
 pemoline, self-injury, drug effects 4476
 pentobarbital effects on conditioned response preservation, maze learning 2106
 pentobarbital effects on novelty fear 2128
 phenylcyclidine behavior, drug effects, dopamine, haloperidol, amphetamine 1012
 phenylcyclidine effects on motor activity, mechanisms, acetylcholine receptors 4342
 phenylcyclidine effects on motor activity, taste aversion, water intake 2117
 phenylalanine, effects on asymmetry, cerebral dominance 3169
 pheromone emission, maternal pheromone, hyperplasia, lesions, hypothalamus (ventromedial) 2025
 picrotoxin, effects on avoidance behavior, locomotor activity 4352
 piribedil effects on, locomotor activity, social behavior, exploratory behavior 939
 placentalophagy, observational learning, maternal behavior 1329
 play, ontogeny, social behavior, social hierarchy 2233
 play, social behavior, androgens effects on 3365
 polydipsia, reinforcement schedules, d-amphetamine effects on, drinking behavior 4358
 polydipsia, reinforcement schedules, sensitivity, insensitivity, taste aversion learning 1747
 polydipsia, schedule-induced behavior, feral populations, domestic animals, hybrids 1707
 pons lesions effects on locomotor activity, running 894
 portal vein surgery, effects on drinking behavior 1961
 postural immobility syndrome, catalepsy, catatonia, neurotransmission 2243
 predation, aggressive behavior, mice killing, inducers, genetics, serotonin, neurochemistry 865
 preferences, sex, orientation, huddling, social behavior, juveniles, *Rattus norvegicus* 1378
 preferences, shock, signals, reversal learning 1802
 pregnancy effects on sexual behavior 2493
 prenatal experience, protein deficiency, effects on development
 proactive interference, infants, memory, forgetting, ontogeny 1823
 proactive interference, shock, escape learning, avoidance behavior, learned inactivity 1735
 problem solving, cognitive ability 4017
 problem solving, exploratory behavior, cognitive mapping 4016
 progesterone, sexual behavior inhibition, estradiol, ovary, ablation 1050
 prolactin effects on grooming 2179
 propofol, effects on, sleep (paradoxical), neurons, chemoreceptors, blocking 771
 S-100 protein, correlation, avoidance learning, memory, nutrient deficiency 4158
 protein deficiency, diets, effects on learning behavior 1793
 S-100 proteins, antisera, effects on, handedness, visual discrimination 797
 psychotropic drugs, effects on brain development 3263
 psychotropic drugs, intratriene exposure, effects on behavior 3262
 psychotropic drug, side effects, effects on maze learning, motor activity 975
 purines, effects on avoidance behavior, reflexes 1982
 quipazine effects on activity patterns, neonates 4341

Rats, (continued)

- quispazine effects on locomotor activity, mediation, dopamine receptors, 5-hydroxytryptamine receptors 4343.
- X-radiation intrauterine exposure, effects on avoidance learning 1613
- rearing effects on brain weight, adrenal gland, liver 3119.
- rearing, isolation, effects on opiates receptors 3875.
- recovery of function, copulation, preoptic area lesions 4244.
- recovery of function, hippocampus lesions 2040.
- reinforcement, cues, odors, trials, activity patterns, locomotor activity 1679.
- reinforcement, delay, maze learning 1692.
- reinforcement, division of labor, dominance 2945.
- reinforcement, dopaminergic mediation, behavioral contrast 3156.
- reinforcement, imprinting, satiety, hunger 1517.
- reinforcement, intracranial self-stimulation, habenular complex 2057.
- reinforcement, novelty, spontaneous alternation 4466.
- reinforcement, operant response, DRL schedule, punishment 3942.
- reinforcement schedules, conditioned response, matching 1757.
- reinforcement schedules, matching, conditioned response 1695.
- reinforcement schedules, response patterning 3938.
- reinforcement schedules, schedule-induced behavior, wood chewing 3945.
- reinforcement schedules, temporal discrimination 2975.
- reinforcement, signals duration, preferences 3946.
- reserpine, neurotransmitters, tranlylcypromine, effects on, locomotor activity, stereotyped behavior, hyperactivity 1004.
- restriction schedule effects on hormones levels, stress 1116.
- retention, maze learning, gravity, space flight 2981.
- reticular formation lesions, effects on startle response, licking behavior, habituation 3205.
- retinol intrauterine exposure effects on ontogeny, learning behavior 2912.
- saline water, intracranial chemical stimulation, effects on maze learning, brain lesions 4271.
- satiety effects on rats 1700.
- satiety, regulation, food intake, nutrients effects on 395.
- schedule-induced behavior, polydipsia, alcohol, food availability 3930.
- scopolamine effects on avoidance behavior, locomotor activity, age 4347.
- scopolamine, noradrenaline, avoidance learning, locus coeruleus, ablation 571.
- self-punitive behavior, punishment 4475.
- self-stimulation, electrophysiological recording, neurons, tegmentum, hypothalamus 4157.
- self-stimulation, motivation, ultradian rhythms 757.
- self-stimulation, substantia nigra, amphetamine depression, drug effects, lithium 1003.
- seminal fluid ribonuclease, effects on, copulation 1323.
- septom, hippocampus, cognitive mapping, maze learning, memory, lesions 4236.
- septom lesions, effects on drinking behavior, alcohol 4226.
- septom lesions effects on maze learning, memory 3192.
- septom lesions, social behavior, attack 3199.
- sex hormones effects on grooming 3319.
- sex hormones, testosterone, progesterone, fear conditioning, extinction, emotional behavior 1049.
- sexual behavior, carbacol effects on 3146.
- sexual behavior, carbacol effects on, females 2500.
- sexual behavior, chronic exposure, sex hormones, agonists, effects on, males 1046.
- sexual behavior, depression, experience, rest, males 2501.
- sexual behavior, drug effects, males 2149.
- sexual behavior, effects on endocrine system, hormones 4411.
- sexual behavior effects on hormones, males 2178.
- sexual behavior effects on sex hormones, plasma levels 3324.
- sexual behavior, females, intrauterine exposure, androgens 3888.
- sexual behavior, lordosis behavior, androgens effects on 3328.
- sexual behavior, lordosis behavior, olfactory stimuli, males 3555.
- sexual behavior, lordosis, sex hormones, 2-hydroxyestradiol, 4-hydroxyestradiol, ovary, ablation 1048.
- sexual behavior, pergolide, bromocriptine effects on 4319.
- sexual behavior, progesterone effects on, prenatal experience 1054.
- sexual behavior, sex differences, androgens effects on 3320.
- sexual behavior, sex hormones 3317.
- sexual behavior, sex hormones, castration 2494.
- sexual behavior, sex hormones effects on 3329.
- sexual behavior, sex hormones, implants, estradiol, ovary, ablation 1051.
- sexual behavior, sex hormones, serum levels, estradiol, progesterone, ovary, ablation 1052.
- sexual behavior, sex hormones, testosterone, plasma levels, luteinizing hormone 189.
- sexual behavior, social environment effects on, isolation, males 3561.
- sexual behavior, testosterone effects on, females 4412.
- sexual behavior, 2-hydroxyestrone, 2-hydroxyestradiol effects on 4409.
- sexual receptivity, estrus cycle, dopamine role 2498.
- sexual receptivity, hypothalamus (ventromedial), midbrain lesions, effects on lordosis behavior 1334.
- shock effects on β -endorphin levels 1997.
- shock effects on aggression 70.
- shock effects on aggressive behavior, social behavior, learned helplessness 3457.
- shock effects on neurophysiology, immobilization 2006.
- shock stress, grooming 2238.
- short term memory, stimulus control, maze learning 4027.
- side effects, fluphenazine decanoate, displacement activity, chewing 968.
- sign-tracking, goal-tracking, acquisition, extinction, reinforcement schedules 3936.
- signals, conditioned suppression, licking behavior 1687.
- sleep and wakefulness, denervation, carotid sinus nerve, chemoreception, gases, hypoxia 4147.
- sleep and wakefulness, neurons responsiveness, development 775.
- sleep and wakefulness, nucleotides levels, brain 770.
- sleep and wakefulness, olfactory perception, olfactory bulb lesions 4222.
- sleep and wakefulness, rhythms, locomotor activity 3112.
- sleep, drug effects, photoperiod 4145.
- sleep (paradoxical) deprivation, effects on intracranial self-stimulation 4256.
- sleep (paradoxical), hippocampus EEG 1947.
- sleep (REM), deprivation, deprivation dopamine sensitivity, depression 774.
- sleep (REM) deprivation effects on aggression, drug effects 1946.
- sleep (REM), deprivation, emotional behavior, females 2222.
- sleep (REM) deprivation, meal feeding, photoperiod 769.
- sleep (REM), stress, EEG 3110.
- sleep regulation, p-chlorophenylalanine, sleep deprivation, sleep (REM) 4144.

Rats, (continued)

- social behavior, conspecifics, effects on fear 2230.
- social behavior, ontogeny 3877.
- social environment, isolation, neonates, effects on ontogeny, orientation 3879.
- social environment, rearing, cognitive ability motor activity, ontogeny 3889.
- sociological aspects, proteins deprivation, ontogeny, maternal behavior, exploratory behavior 524.
- solvents, effects on, locomotor activity, temporal perception, operant conditioning 514.
- spatial discrimination learning, avoidance learning, neurons depletion, hippocampus 3151.
- spinal cord nerves ablation, effects on avoidance learning 798.
- spontaneous alternation, memory, learning behavior 1783.
- startle response, morphine, analgesia 4372.
- stereoselectivity, drug effects, feeding, antagonists, agonists, opioids 2131.
- stereotyped behavior, chlorides, environmental factors, open-field behavior, exploratory behavior 1112.
- stereotyped behavior, sex hormones effects on 3325.
- stimulus control, blocking 1643.
- stimulus control, chain schedule, temporal discrimination learning 4010.
- strains, circadian rhythms, motor activity, catecholamines 1586.
- strains, preexposure, conditioned response, shock, burrowing behavior, defensive behavior 3977.
- stress, analgesia, escape behavior latency 4480.
- stress, CS, UCS, hyperthermia, alcohol 4482.
- stress effects on brain amines 3369.
- stress effects on plasma corticosterone, catecholamines 2236.
- stress, hormones, corticosterone, plasma level, tissues distribution 1119.
- stress, open-field behavior, activity patterns 4483.
- stress, shock, analgesia 4477.
- stress, shock, effects on plasma level, adrenaline, noradrenaline 3366.
- strychnine sulfate, effects on memory, avoidance learning 1819.
- substantia nigra, lesions, dopamine, neurotransmitters, rotation, grafting, adrenal chromaffin cells 896.
- substantia nigra lesions, effects on activity patterns, turning 3191.
- substantia nigra, self-stimulation, intracranial recordings, mapping 916.
- suckling behavior, infarcted nerve, tactile stimuli, neonates 3127.
- suckling behavior, neurophysiology, neonates 3177.
- suckling behavior, ontogeny, neonates 3602.
- sulfanilic acid effects on activity patterns, central nervous system development 4311.
- suprachiasmatic nuclei ablation, effects on feeding behavior, circadian rhythms 4234.
- swimming behavior development, paint thinner intrauterine exposure effects on 1607.
- swimming behavior, ontogeny, neonates, dopamine effects on 526.
- swimming behavior, sleep (REM) deprivation effects on 1945.
- synaptic membranes proteins, striate cortex, cortex (prefrontal), cortex (visual), problem solving 4171.
- tail-pinch behavior, methodology 4431.
- tail-pinch stress, effects on hyperphagia, activity patterns 3367.
- tails, mechanical stimuli effects on feeding behavior 405.
- taste aversion, avoidance learning, neophobia 3961.
- taste aversion, conditioned response, extinction, subdiaphragmatic vagus 4154.
- taste aversion, conspecifics, adaptiveness 2735.
- taste aversion, drug effects, morphine, lesions, periaqueductal grey area 3186.
- taste aversion learning, area postrema lesions effects on 568.
- taste aversion learning, avoidance behavior, drug effects 3281.
- taste aversion learning, avoidance learning, preexposure, novelty 1768.
- taste aversion learning, chemical stimuli, trimethyltin, triethyltin 3964.
- taste aversion learning, chloroform 1724.
- taste aversion learning, chlorpromazine, lithium effects on 4338.
- taste aversion learning, cocaine 1763.
- taste aversion learning, cocaine, apomorphine 2101.
- taste aversion learning, conditioning, reinforcement schedules 3953.
- taste aversion learning, discrimination learning, drugs 3960.
- taste aversion learning, flavor toxicosis 3981.
- taste aversion learning, gustatory stimuli, α -cathionone 3962.
- taste aversion learning, heroin, morphine effects on 2116.
- taste aversion learning, lithium chloride 2953.
- taste aversion learning, maze learning 1794.
- taste aversion learning, morphine, post-conditioning exposure effects on retention 3979.
- taste aversion learning, novelty 2952.
- taste aversion learning, novelty, context dependency 2956.
- taste aversion learning, nutrient deficiency, thiamine, recovery, toxicosis, atropine, lithium 1727.
- taste aversion learning, nutrient deficiency, thiamine, associative learning 1727.
- taste aversion learning, odors effects on, overshadowing 3983.
- taste aversion learning, palatability, consummatory behavior, insulin 1510.
- taste aversion learning, performance, age effects on, preexposure 3984.
- taste aversion learning, poisoned partner effect 3958.
- taste aversion learning, poisoned partner effect, anosmia 3956.
- taste aversion learning, polydipsia, reinforcement schedules 1748.
- taste aversion learning, potentiation 3986.
- taste aversion learning, reinstatement 2954.
- taste aversion learning, retention, memory, CS, UCS 1736.
- taste aversion learning, toxicity testing, methyl bromide 3965.
- taste aversion learning, UCS preexposure, blocking 3957.
- taste aversion, taste preferences, conditioned response, intracranial self-stimulation, lithium chloride 4115.
- taste aversion, tetrahydrocannabinol effects on 963.
- taste discrimination, discrimination learning, reversal learning 592.
- taste perception, taste discrimination, development 738.
- taste preferences, appetitive conditioning, satiety effects on 3923.
- taste preferences, hedonic response, flavor-flavor associations 3924.
- taste preferences, taste perception, neohesperidin dihydrochalcone, electrophysiological recording 4093.
- tectum lesions, effects on maze learning 3185.
- tegmentum connections lesions, effects on avoidance learning 2024.
- telencephalon lesions, effects on motor activity, metabolism 912.
- temporal discrimination, endogenous stimuli, memory 1826.
- testosterone, effects on, food intake 4415.
- tricyclic effects on schedule-induced behavior, polydipsia 4336.
- tetrahydrocannabinol effects on stereotyped behavior, motor activity 4290.

Rats, (continued)

- 4,5,6,7-tetrahydroxazolo-[5,4-c]pyridin-3-ol effects on feeding behavior 4355
- thermoregulation effects on self-stimulation, salicylate 2046
- thirst, orientation cues, discrimination learning, transfer learning 742
- thyroliberin effects on avoidance learning, extinction 4413
- toluene effects on activity patterns, circadian rhythms 1016
- tonic immobility, antidepressants effects on, escape behavior, swimming 2094
- tonic immobility, convulsions, catalepsy, catatonia, shock, drug effects 739
- toxicity testing, taste aversion learning, physostigmine 4320
- trace conditioning, blocking 3949
- training effects on cortex (frontal) pyruvate dehydrogenase (lipoamide) enzyme activity, phosphorylation 2004
- trials, variable interval schedule, discrimination learning, behavioral contrast 4006
- tributylmethylacrylate-carbon monooxy-methylmethacrylate ester effects on avoidance learning 4308
- triethyltin bromide effects on motor activity, nervous system damage 4327
- triethyltin, early experience, effects on motor activity 3248
- triethyltin effects on food intake, brain neurochemistry 4315
- triethyltin effects on learning behavior, activity patterns 2100
- triethyltin effects on operant response, reinforcement schedules, adjunctive behavior 4293
- trigeminal nerve ablation, effects on food intake, operant response, intracranial self-stimulation 4159
- trimethyltin effects on activity patterns, vocalization behavior, hippocampus degeneration 4312
- trimethyltin, effects on hippocampus, cell loss, activity patterns 4316
- trimethyltin effects on learning behavior, memory 4317
- trimethyltin, effects on maze learning, memory, hippocampus damage 4313
- trimethyltin, effects on problem solving, maze learning, hippocampus damage 4314
- triphenyltin intratracheal exposure, effects on motor activity development, avoidance learning 4307
- tryptophan deprivation, effects on sleep circadian rhythms, 5-hydroxytryptamine metabolism 3126
- tryptophan, diets, aggressive behavior, lesions, septum 2022
- undernutrition, early experience, effects on memory, hippocampus 1616
- vagina stimulation effects on sexual receptivity, locomotion, pain perception 857
- vagus nerve ablation effects on hyperphagia 2034
- vagus-sinus effects on appetite conditioning, discrimination learning 4175
- ventilatory behavior, respiration, respiratory function, expiratory behavior 1110
- γ -vinyl α -aminobutyric acid, effects on feeding behavior, food intake 4391
- visual discrimination, cortex ablation effects on 907
- visual discrimination, cortex (visual) lesions effects on 889
- visual discrimination learning, drug effects 4354
- visual discrimination learning, reinforcement schedules 4008
- visual discrimination, malnutrition effects on 1894
- visual perception, cortex (visual) activity 4199
- vocalization, copulation, sexual receptivity 1181
- wet-dog shakes, drug effects 4362
- wheel running effects on food intake 4489
- work preferences, multiple schedule, reinforcement 553
- yawning behavior, hormones, neurons, mechanisms, drug effects, physostigmine, pilocarpine 848
- yawning behavior, sex hormones effects on 3310
- zona incerta lesions, effects on feeding behavior, taste perception 4235
- Rattus cuticularis cuticularis**, taste aversion learning, zinc phosphide, bait shyness 3959
- Rattus fuscipes**, activity patterns, seasonal variations, temperature effects 482
- Rattus norvegicus**, activity patterns, exploratory behavior, locomotor activity 3362
- agonistic behavior, social behavior, domestication 1203
- defensive behavior, attack 3453
- dehydration effects on grooming, water loss 2869
- mating behavior, copulation, sex differences 3576
- mating behavior, reproductive strategy 2506
- mating behavior, reproductive strategy, rats 2506
- mating behavior, social behavior, copulation 3578
- performance, age effects on, precopulation 3984
- polydipsia, schedule-induced behavior, feral populations, domestic animals, hybrids 1707
- preferences, sex, orientation, huddling, social behavior, juveniles, rats 1378
- social behavior, ontogeny 3877
- Rattus norvegicus albinus**, feeding behavior, drinking behavior, exploratory behavior 3755
- Rattus rattus**, avoidance behavior, drug effects, auditory perception 966
- avoidance behavior, wheel running, social interactions 565
- behavioral contrast, operant conditioning, frustration theory 1105
- defensive behavior, attack 3453
- diets, feeding behavior 1498
- diets, foraging behavior 2763
- drug effects, amphetamines, suppression, food intake, fat metabolism 2086
- drug effects, cocaine, intracranial self-stimulation, reward, detection threshold, dissociation 958
- drug effects, taste aversion, barbiturates, lithium chloride 962
- drug effects, tetrahydrocannabinol, conditioned response, avoidance behavior 965
- distraction, running, blocking 1104
- hippocampus, brain lesions, stereotyped behavior, locomotion, reward 885
- maze learning, spatial discrimination learning, age effects, neurochemistry 845
- operant conditioning, reinforcement, interresponse time 541
- schedule-induced behavior, operant conditioning, neurochemistry, catecholamine 841
- self-punitive behavior, CS, extinction 544
- self-punitive behavior, drug effects, methylphenidate, conditioned response, extinction 964
- sexual behavior, estrus cycle, drug effects, benzamide 954
- sexual behavior inhibition, sex hormones, males 1043
- sleep inhibition, hormone release, drug effects, fluorotryptophan 2081
- taste aversion learning, zinc phosphide, bait shyness 3959
- thermoregulation, hormone release, central nervous system 1042
- thermoregulatory behavior, inhibition, maintenance, control 737

Rattus rattus, (continued)

- toxins, pest control, avoidance behavior 2213
- Reaction time task**, auditory stimuli, tones, ear, laterality effects 730.
- Reactivation**, conditioning, memory, aversion learning, rats 614.
- Reactivity**, auditory stimuli, emotional behavior, learning behavior, brain monoamines, rats 2223.
- startle response, tactile stimuli, drug effects, caffeine, rats 2144.
- Rearing**, aggressive behavior, mother-offspring interactions deprivation, Papio cynocephalus 3461
- cages, crowding, effects on food consumption, *Colinus virginianus* 1482
- effects on aggressive behavior, mice 1201
- effects on brain weight, adrenal gland, liver, rats 3119
- effects on visual discrimination, volume, *Mesocricetus auratus* 1891
- environmental conditions, effects on sleep (paradoxical), rats 776
- fear, heart rate, chickens 4467
- handling, effects on social behavior ontogeny, *Canis lupus* 2916
- handling, social behavior, *Gorilla gorilla gorilla* 3868
- host plants effects on, mating behavior, oviposition, *Dioryctria amatella* 1258
- isolation, effects on avoidance learning, rats 580
- isolation, effects on opiates receptors, rats 3875
- isolation, open-field behavior, emotional behavior, rats 3884
- laboratories, hibernation, patterns, *Eliomys quercinus* 1944
- methodology, social environment, *Gorilla gorilla gorilla* 4439
- offspring odors, recognition, sheep 4451
- parasites, hosts, brood care, *Caculus canorus* 2533
- parental behavior, brood care, *Tyto alba* 2535
- reproductive behavior, reviews, chickens 4446
- scopolamine effects on, age, rats 4347
- social environment, cognitive ability motor activity, ontogeny, rats 3889
- social environment, effects on open-field behavior, juveniles, sheep 3348
- social rank, feeding behavior, aggressive behavior, chickens 3343
- suckling behavior, cattle 3354
- Receptivity**, sexual behavior, pregnancy effects on, rats 2493.
- Receptors**, brain, opiates, effects on memory, rats 610.
- cytosol, hypothalamus, rats 1335
- dopamine, neuropeptides effects on, stereotyped behavior, gnawing, mice 952
- dopamine, sensitivity effects on avoidance learning performance, rats 978
- dopamine, sensitivity, fluphenazine decanoate, rats 968
- gravity, sensilla, *Arenivaga* 1907
- magnetic fields, orientation, communication, *Apis mellifera* 1911
- neurotransmitters, agonists, effects on sexual behavior, rats 2149
- ontogeny, morphine, rats 2122
- opiates, role, enkephalins effects on avoidance learning, rats 3165.
- Recognition**, aggressive behavior, conspecifics, heterospecifics, visual stimuli, *Dasyllus aeneus*, *Dasyllus marginatus* 1195
- brain, right hemisphere, memory, discrimination learning, man 617
- conspecific odors, chemical communication, social behavior, *Tamias striatus* 3425
- conspecific odors, chemoreception, juveniles, *Cichlasoma citrinellum* 2287
- conspecific odors, scent marking behavior, chemical communication, *Spermophilus columbianus* 3424
- conspecifics, mate selection, *Polistes fuscatus* 2426
- conspecifics, mating behavior, tactile stimuli, *Enallagma* 2432
- conspecifics, olfactory stimuli, feces, *Dumaliscus dorcas dorcas* 3426
- conspecifics, song variation, flocking behavior, *Parus atricapillus* 1171
- conspecifics, territorial behavior, *Plethodon cinereus* 2320
- intraspecific relationships, behavior ecology, *Anas* 419
- males, mating behavior, antennal chemoreceptors, *Drosophila bipectinata*, *Drosophila melanogaster* 4150
- memory, hippocampus, resections, monkeys 616
- memory, recency effect 605
- mother-offspring interactions, olfactory perception, *Rangifer tarandus tarandus* 3597
- odors, olfactory discrimination, nest mates, *Lasioglossum zephyrum* 1951
- offspring, mother-offspring interactions, sensory stimuli, horses 2548
- offspring odors, rearing, sheep 4451
- olfactory stimuli, olfactory perception, orientation, *Phoxinus laevis* 4108
- pheromones, nests incompatibility, colonial characteristics, *Pseudomyrmex ferrugineus* 3380
- predators face, visual discrimination, *Chromis caeruleus* 3808
- predators, prey, avoidance behavior, *Falco*, *Heligalea undulata rufula*, *Tockus* 3766
- prey, stimulus control, learning behavior, *Naja mossambica pallida* 3987
- self-stimulation, Pongo, Pan, *Gorilla* 602
- siblings, huddling, *Acomys cahirinus* 1373
- siblings, social behavior, *Peromyscus leucopus* 3634
- song, auditory communication, sex differences, *Phylloscopus collybita* 3418
- species, visual perception, discrimination learning, juveniles, chickens 1776
- visual discrimination, predators face, coral reefs, *Pisces* 3809
- visual stimuli, aggressive behavior, dominance, *Potomion fluviatilis* 93
- visual stimuli, matching task, monkeys 724
- visual stimuli, visual discrimination learning, conditioned response, dogs 596
- vocalization behavior, mother-offspring interactions, *Gymnorhinus cyanocephalus* 2302
- Recording**, substantia nigra, tegmentum intracranial, brain 2010.
- Recovery**, extinction, autoshaping, classical conditioning, CS, reinforcement, pigeons 537
- nutrient deficient, thiamine, taste aversion learning, toxicosis, atropine, lithium, rats 1727
- Recovery of function**, brain damage, discrimination learning, rats 2038
- copulation, preoptic area lesions, rats 4244
- cortex (entorhinal) lesions, environmental effects, sensory stimuli, rats 2020
- cortex (frontal) lesions, neonates, rats 2058
- cortex (sensorimotor) lesions, tactile discrimination learning, rats 4239
- hippocampus lesions, rats 2040
- motor activity, metabolism, telencephalon lesions, rats 912
- visual perception, motor activity, visual deprivation, rats 3057

- Recruitment,**
colonic characteristics, auditory communication, *Larus bulleri* 2289.
food sources, chemical communication, pheromones, *Tetramorium impurum* 1150.
pheromones, polyethic behavior, *Nasutitermes corniger* 2278.
workers, feeding behavior, trail pheromone, *Myrmica rugulosa* 2634.
workers, foraging behavior, pheromones, *Myrmica rugulosa* 2645.
- Rectal gland,**
sex discrimination, aggregation behavior, *Megarysops* 224
- 5β-Reductase,**
enzymatic activity, sexual behavior, testosterone, *Streptopelia risoria* 1312.
- Reduvioid rosenpennis,**
predator-prey interactions, *Pseudophasia includens* 293.
- Reels,**
man effects on escape behavior, observation methods, *Placis* 2832.
- H-Reflex,**
alcohol effects on, motor activity, rabbits, man 2074.
- Reflexes,**
avoidance behavior, escape behavior, approach behavior, feeding behavior 1591.
avoidance behavior, purines effects on, rats 1982.
central nervous system, cyanide effects on, rats 1994.
conditioned response, hypoxia, prenatal, rats 1674.
conditioned response, memory, brain proteins, rats 842.
conditioning, effects on RNA biosynthesis, DNA biosynthesis, rabbits 786.
conditioning, rats 3940.
copulation, estradiol effects on, castration, rats 2181.
drug effects, hallucinogens, environmental factors effects on, rats 969.
- Reflexes (gill-withdrawal),**
habituation, mechanisms, nerve transmission depression, *Aplysia californica* 4183.
neurons, *Aplysia californica* 821.
neurons, gills, *Aplysia californica* 819.
ontogeny, *Aplysia californica* 2905.
sensitization, neurons, *Aplysia californica* 820.
- Regulation,**
consummatory behavior, brain ablation effects on, methodology, rats 902.
feeding behavior, *Schistocerca gregaria* 306.
food intake, nutrients effects on, food preferences, rats 1488.
pheromones production, *Apis mellifera* 8.
satiety, food intake effects on, nutrients, rats 395.
- Regulus calendula,**
feeding behavior, brood care, parasitism, *Molothrus ater* 2525.
- Regulus regulus,**
temperature, effects on foraging behavior, winter 2715.
- Reinforcement,**
acquisition, matching-to-sample, disruption, pigeons 1777.
appetitive conditioning, behavioral contrast, rats 3933.
appetitive conditioning, DRO schedule, behavioral contrast, rats 3934.
appetitive conditioning, learned helplessness, rats 3935.
appetitive conditioning, response topography, rats 1684.
association analysis, associative learning, memory, mathematical models 1066.
asymmetry, intracranial self-stimulation, drug effects, amphetamine, behavior, rats 973.
auditory stimuli, visual stimuli, contingency, man 1713.
autoshaping, discrimination learning, signals, food, pigeons 1655.
autoshaping, pretraining effects: pigeons 1651.
behavioral contrast, chain schedule 3899.
behavioral contrast, ontogeny, successive negative contrast, juveniles, rats 2922.
body odors production, alternation learning, discrimination learning 3903.
burrowing behavior, digging, operant response, rats 1690.
chain schedule, preferences, signals, operant response, choice learning, pigeons 1671.
chemical stimuli, odors, alternation learning, rats 3948.
conditioned suppression, external stimuli, associative learning 1641.
cortex (prefrontal), unit activity, *Macaca mulatta* 3180.
CS, autoshaping, classical conditioning, extinction, recovery, pigeons 537.
taste, odors, trials, activity patterns, locomotor activity, rats 1679.
delay, maze learning, rats 1692.
deprivation, hunger, incentive contrast, cues, response, rats 1703.
devaluation, operant conditioning, taste aversion learning, rats 3951.
discrimination learning, preferences, retention, *Macaca mulatta* 1709.
dissociation, hypothalamus electrical stimulation, appetitive conditioning, rats 918.
division of labor, dominance, rats 2945.
dopaminergic mediation, behavioral contrast, rats 3156.
DRO schedule, blocking, rats 2944.
drug effects, pimoide, food, rats 1929.
ESB, drug effects, rats 2050.
extinction, learned helplessness, rats 1675.
feeding behavior, drug effects, anorectic agents, rats 4351.
fixed interval schedules, behavior modeling, measurements, pigeons 536.
food, alcohol, rats 3928.
food intake, naloxone, naloxone effects on, rats 4375.
food, operant conditioning, early experience effects on, malnutrition, rats 3885.
ignoring, satiety, hunger, rats 1517.
intracranial chemical stimulation, chlorpromazine, potentiation, naloxone, rats 2001.
intracranial self-stimulation, drugs, neurophysiology, rats 4273.
intracranial self-stimulation, rats 4275.
intracranial self-stimulation, enkephalin, leucine-, rats 4268.
intracranial self-stimulation, ESB, apomorphine effects on, rats 4265.
intracranial self-stimulation, ESB, drug effects, rats 4266.
intracranial self-stimulation, ESB, rats 4260.
intracranial self-stimulation, food deprivation, rats 2052.
intracranial self-stimulation, habenular complex, rats 2057.
intracranial self-stimulation, juveniles, rats 2048.
intracranial self-stimulation, reviews 4267.
learning behavior, cognitive ability, sleep 768.
learning behavior, delayed response, conditioned response, *Cebus* 1599.
learning behavior, dogs 1705.
learning behavior, extinction, response acquisition, *Melipona quadrifasciata* anthidodes 2925.
manipulation, discrimination learning, tranquilizers, rats 1790.
matching-to-sample, expectancy, pigeons 2964.
maze learning, intracranial chemical stimulation, dopamine, rats 597.
maze learning, memory, exploratory behavior, rats 1817.
memory, serial order anticipation, hedonic response, rats 1704.
- Reinforcement, (continued)**
multiple schedule, work preferences, rats 553.
nectar, effects on foraging behavior, *Bombus sandersoni*, *Vespa vulgaris* 1414.
nonreinforcement, spontaneous recovery, stimulus control, pigeons 1666.
novelty, spontaneous alternation, rats 4466.
operant conditioning, deprivation shift, rats 2937.
operant conditioning, deprivation stimuli, cues, rats 545.
operant conditioning, interresponse time, rats 541.
operant conditioning, omission training, rats 1691.
operant response, DRL schedule, punishment, rats 3942.
optimization, choice learning, pigeons 1721.
punishment, electrical stimulation, self-stimulation, monkeys 1711.
punishment, ontogeny, avoidance behavior, chickens 1720.
response rates, variable interval schedule, drug effects, amphetamines, rats 2161.
reward, visual stimuli, color, patterning, *Carassius auratus* 1646.
runway learning, *Anura* 1645.
self-stimulation, drug effects, pimoide, taste preferences, rats 2147.
self-stimulation, etoxadrol, dextroalol, monkeys 3232.
serial feature-positive discrimination, discrimination learning, appetitive conditioning, rats 1701.
shock, avoidance behavior, operant conditioning, rats 1680.
shock, avoidance behavior, temporal perception, rats 1741.
signals duration, preferences, rats 3946.
signals, effects on cortex waves, *Saimiri sciureus* 878.
stereotyped behavior, choice learning, conditioned response, dogs 577.
substantia nigra, dopaminergic cell intracranial, recording, brain 2010.
variable interval schedule, nictitating membrane response conditioning, second-order schedule, second-order conditioning, serial compound conditioning, rabbits 1702.
visual discrimination learning, reversal learning, ESB, hypothalamus (lateral) 3210.
visual stimuli, operant conditioning, variable interval schedule, pigeons 3909.
water intake, ethanol, *Macaca mulatta* 556.
withdrawal, autoshaping, novelty stimuli, reinstatement, pigeons 3894.
- Reinforcement magnitudes,**
autoshaping, effects on, UCS, CS, pigeons 3905.
behavioral contrast, variable interval schedule, pigeons 539.
- Reinforcement schedule,**
avoidance learning, performance 3955.
fixed ratio schedule, fixed interval schedule, social bonds, juveniles, ducks 1672.
shock, preferences, aversion learning, rats 3967.
transfer learning, classical conditioning, rats 554.
- Reinforcement schedules,**
acquisition, partial reinforcement extinction effect, rats 1632.
adjunctive behavior, schedule-induced behavior, attack, pigeons 1688.
autoshaping, pigeons 2934.
autoshaping, pigeons 2935.
avoidance learning, hippocampus development, juveniles, rats 1730.
avoidance learning, rats 3985.
chain schedule, serial learning, simultaneous conditioning, pigeons 1669.
conditioned response, matching, rats 1757.
conditioned response, multiple schedule, pigeons 1759.
conditioning, deprivation, extinction, rats 3896.
conditioning, taste aversion learning, rats 3953.
delay, preferences, reversal learning, pigeons 1800.
deprivation, water, food, orientation, temporal discrimination, pigeons 1667.
discrimination learning, acquisition, rats 1782.
discrimination learning, rats 1788.
discrimination learning, stimulus duration, pigeons 3994.
discrimination learning, variable interval schedule, changeover delay, delayed response, pigeons 1670.
fixed consecutive number schedule, drug effects, pimoide, stimulus control, dopamine, pigeons 2078.
fixed ratio schedule, fixed interval schedule, continuous reinforcement, food, water, operant response, rats 1699.
fixed ratio schedule, pigeons 3910.
fixed ratio schedule, timeout, pigeons 1658.
food availability, response, pigeons 1665.
food, patterns, cognitive ability, extrapolation, rats 1677.
food, response, memory, pigeons 1660.
intertrial interval, extinction, rats 3895.
locomotor activity, hoarding behavior, hamsters 3943.
matching, conditioned response, rats 1695.
matching-to-sample, interference, retention, pigeons 3993.
multiple schedule, conditioned response, pigeons 1758.
multiple schedule, operant conditioning, pigeons 3919.
multiple schedule, pigeons 3997.
operant conditioning, carbon monoxide effects on, rats 3941.
operant conditioning, learning behavior, rats 1682.
operant conditioning, morphine tolerance, pigeons 4284.
operant conditioning, retention, stimulus control, pigeons 3904.
operant response, carbon monoxide effects on, rats 4298.
operant response, extinction, pigeons, *Corvus brachyrhynchos* 3893.
operant response rate, caffeine effects on, rats 4287.
operant response, triethylthyl effects on, rats 4293.
optimization, foraging behavior, pigeons 1650.
polydipsia, d-amphetamine effects on, drinking behavior, rats 4358.
preferences, feeding behavior, food intake, deprivation, energy intake, *Junco hyemalis* 1467.
problem solving, pigeons 1775.
response patterning, rats 3938.
reversal learning, inhibition, pigeons 1801.
schedule-induced behavior, terminology 2247.
schedule-induced behavior, wood chewing, rats 3945.
sensitivity, insensitivity, taste aversion learning, polydipsia, rats 1747.
shock, classical conditioning, rats 1761.
sign-tracking, goal-tracking, acquisition, extinction, rats 3936.
signals, autoshaping, pigeons 2930.
stereotyped behavior, operant response, pigeons 3918.
stimulus control, pigeons 2933.
taste aversion learning, polydipsia, rats 1748.
taste aversion learning, shock 1715.
taste aversion learning, shock 1725.
temporal discrimination, monkeys 2976.

Reinforcement schedules, (continued)

temporal discrimination, rats 2975
variable interval schedule, alternation learning, pigeons 1662
variable interval schedule, food, response, behavioral contrast, pigeons 1661
variable discrimination learning, rats 4008

Reinstatement

novelty stimuli, autoshaping, reinforcement, withdrawal, pigeons 3894
 taste aversion learning, rats 2954

Rejection

eggs, nests parasites, *Cuculus canorus*, *Phoenicurus phoenicurus* 3814

Relative humidity

environmental effects, locomotor activity, flight activity, *Locusta migratoria*
 migrationoides 1547

weather, flight activity, *Dendroctonus frontalis* 455

Release factors

copulation, physical characteristics, *Plodia interpunctella*, *Cadra cautella*,
 Anagasta kuehniella 124

Remote sensing

activity patterns monitoring, methodology, electronic equipment, microwave
 radiation, radar 1079

tagging, methodology, reproductive behavior, migrations, *Zenaida macroura* 1089

Removal

larvae, workers, disease resistance, brood disease, *Apis mellifera* 3785

plasma levels, aggressive behavior effects on, males, mice 2329

Repelents

silk, interspecific relationships, *Dietya*, *Mallos* 1361

Replacement

social rank, dominance, males, *Macaca fascicularis* 2378

Reproduction

annual cycles, photoperiods effects on, *Californicus hystericus* 1318,

effects on distribution, *Octopus vulgaris*, Atlantic Ocean 81

effects on escape behavior, predation vulnerability, *Lacerta vivipara* 2817

maternal behavior, ranging behavior, sheep 4457

mating behavior, copulation, *Imparipes hystericus* 2433

migrations, behavioral genetics, mathematical models 1060

nest building, oviposition, temperature effects population density, female body

size, emergence, effects on, *Dendroctonus frontalis* 1263

nesting, colonies, *Pelecanus occidentalis occidentalis* 2531

Reproductive behavior

agonistic behavior, maturation, feathers, males, *Setophaga ruticilla* 513

altruism, kin selection, *Nesomys parvulus* 2467

behavior ecology, endocrine system, *Anolis carolinensis* 459

brain anatomy, *Macropodops* 1952

breeding, nesting, *Anthus pratensis*, Germany, Fed Rep 2469

breeding success, environmental factors, *Pygocotys papua*, Manon Island 160

breeding success, feeding behavior, habitat preferences, nesting behavior,

Toxostoma curvirostre, *Toxostoma longirostre* 168

breeding success, genetic factors, mice 3849

calling behavior, *Chrysopa oculata*, *Chrysopa chi* 2419

circadian rhythms, hatching, endogenous stimuli, *Uta pugnator* 1932

colonial characteristics, aggression, castes, *Monomorium pharaonis* 1192

colonial characteristics, life cycle, *Enophora bistriata* 214

communication, social interactions, hormones, pheromones, conferences 4499

conspecifics diets effects on, rats 2735

copulation, spermatozoa, *Nezara viridula* 110

culture effects on, *Toxothrypanes amboinensis* 108

Dasypodius westermanni, South Africa 445

diets, food availability, *Asio otus*, British Isles, Scotland 1468

domestic animals, agricultural practices 4444

ecology, endocrine system, *Anolis carolinensis* 459

effects on hormones, *Streptopelia risoria* 1301,

environmental effects, oviposition, *Lipeurus lawrensis* tropicalis 2390

enzymatic activity, esterase 6, *Drosophila melanogaster* 1261

estrous cycle, scent marking behavior, calling behavior, hamsters 1327

estrus, melengestrol acetate, monensin effects on, cattle 3353

evolution, social behavior, parental behavior, seasonal variations, *Calidridae*

507

feeding behavior, maternal behavior, *Vespertilio superans* 2486

feeding behavior, predator-prey relationships, annual variations, *Polines*

148n, *Tellina tenuis* 282

females, attractants, *Lucilia cuprina* 10

fertility, rabbits 1321,

flocking behavior, mortality, *Branta canadensis* 2839

grazing, walking, effects on, cattle 2207

habitat preferences, food preferences, *Pygoderma bilabiatum* 2900,

habitat preferences, nesting behavior, *Dumetella carolinensis* 1310

harem defense, energetics, *Artibeus jamaicensis* 1320,

hormones, regulation, reviews, *Telesites* 4399,

Hypoblemus sordidus, Chile Coast 158

interbreeding population genetics, fitness, *Parus major* 170,

interspecific relationships, *Mirounga leonina*, *Arctocephalus pusillus*, *Namibia*,

Van Reenen Bay 480,

interspecific relationships, natural selection, *Pteroptix*, *Africimex*, *Xylocoris*

144

interspecific relationships, auditory communication, *Megaptera novaeangliae*,

Hawaii, Tropical Pacific Ocean 46,

isolation, interspecific relationships, *Parus amicalis*, *Parus carolinensis*

176,

isolation, speciation, natural selection, behavioral genetics, mathematical

models 1064

life history, *Lycosa pseudoannulata* 2888

life history, *Lycosa pseudoannulata* 2888,

life history, *Mastophora dizzydeani* 1523,

locomotor activity, circadian rhythms, estrus, rats 3104,

males, effects on population regulation, *Peromyscus leucopus*, USA, Massachusetts,

Muskeget Island 481,

males, sex pheromone effects on, *Sitotroga cerealella* 121,

Masandae, South Africa 444

male selection, spatial distribution, males, *Cystosoma sandersii* 1278,

mathematical models, sexual behavior, populations, *Chaulionathus pennsylvanicus*

140,

mating behavior, nesting behavior, territorial behavior, *Agelaius phoeniceus*

1311,

methodology, tagging, remote sensing, *Zenaida macroura* 1089,

migrations, geographical distribution, *Gerygone fusca*, *Gerygone levigaster*,

Reproductive behavior, (continued)

Gerygone mouki, Australia 478

migrations, imprinting, *Caretta caretta* 2906

migrations, temperature preferences, *Pardosa laura* 2991

nesting behavior, breeding success, *Lagopus lagopus* 2457,

nesting behavior, egg laying, *Accipiter* 160

nesting behavior, mate guarding, *Pica pica* 2476,

nesting behavior, parental behavior, *Ficedula zanthophya* 2458

nursing, fecundity, fertility, *Menonae unguiculatus* 1330

ontogeny, *Mus musculus* 3565

oviposition, habitat, *Phyllodactylus galapagensis* 2447

oviposition habitat preferences, *Maruca testulalis* 103,

oviposition, host selection, fecundity, parasitoids, *Euplectrus kuwanae* 1273,

oviposition, host specificity, *Dryinidae* 117,

oviposition, substrate preferences, *Menidia menidia*, USA, South Carolina Coast

1294

oviposition synchronizability, breeding success, *Rana sylvatica* 3525,

pair bond, aggression, *Microtus ochrogaster* 191,

pair bond, sex differences, *Delichon urbica* 163,

parental behavior, agonistic behavior, males, *Betta splendens* 3530,

parental behavior, breeding success, *Branta canadensis* maxima 2456,

parental behavior, learning behavior, *Psittorhinus morio* 199,

parental behavior, parturition behavior, *Capra sibirica* 3577,

parturition behavior, breeding, *Sus scrofa* 3558

parturition behavior, mother-offspring interactions, *Cervus nippon yesoensis*

1324

pheromones, olfactory communication, *Sus scrofa* 3437,

photoperiods, sex hormones, crowding, egg laying, *Lagopus lagopus* 178,

polygamy, paternal behavior, *Mimus polyglottus* 3552,

population regulation, demography, *Macaca mulatta* 2510,

predatory behavior, breeding success, *Falco peregrinus* 3718,

puberty, juveniles, *Saimiri* 195

rearing, reviews, chickens 4446

reproductive isolation, acoustic communication, *Schizocosa ocreata*, *Schizocosa*

rovneri 1127

reproductive isolation, sympatric populations, *Tympanuchus cupido*, *Pediceptes*

phasianellus 2288

reproductive strategy, dispersal, *Alouatta palliata* 3579,

resource allocation, aggressive behavior, environmental factors, assessment

strategy, *Scathophaga stercoraria* 59,

salt marshes, *Catoprophorus semipalmatus*, USA, Virginia Coast 2573,

scent marking behavior, horses 2507

seasonal variations, hormones effects on, *Merpeses auroreopunctatus* 1057,

seasonal variations, *Ligia indica* 3490,

seasonal variations, mating, sexual receptivity, *Macaca mulatta* 3580,

seasonal variations, *Pontoporia blainvilliei* 180,

sex hormones, testosterone, males, *Macaca mulatta* 1059,

sex pheromone effects on, *Cochliomyia hominivorax* 16,

sexual receptivity, pheromones, *Thamnophis sirtalis parietalis* 2444,

sexual reproduction, *Loligo pealei* 2388,

social behavior, intraspecific relationships, selection, dispersal, *Aphelocoma*

coenulescens insularis 230

social interactions, life history, *Passeriformes* 177,

social organization, aggressive behavior, horses 2586,

spawning, sensory stimuli, *Clupea harengus pallasi* 1296,

spawning, *Tandanus tandanus* 2450,

synthetic sex pheromone effects on, *Grapholitha molesta* 9,

territorial behavior, agonistic behavior, *Larus marinus* 2459

territorial behavior, *Anthidium manicatum* 86,

territorial behavior, *Oreoscoptes montanus*, *Amphispiza belli*, *Spizella breweri*,

USA, Idaho 2465

vocalization behavior, activity patterns, *Petroica australis australis* 3860,

Reproductive effort

competition, weaning, age, population density, *Mirounga angustirostris* 2484,

Reproductive isolation

calling behavior, sound production, *Nephrotettix cinctipes*, *Nephrotettix*

virescens, *Nephrotettix nigropictus*, *Nephrotettix malayanus* 3379,

mating behavior, courtship, *Aponomma hydrosauri*, *Amblyomma albolineatum*,

Amblyomma limbatum 3502

mating behavior, courtship, *Drosophila mojavensis*, *Drosophila arizonensis* 118,

mating behavior, feeding types, *Dichrocoelus punctulatus*, Japan 1256,

mating behavior, sympatric populations, *Ostrinia* 2422,

reproductive behavior, acoustic communication, *Schizocosa ocreata*, *Schizocosa*

rovneri 1127

reproductive behavior, auditory communication, sympatric populations, *Tympanuchus*

cupido, *Pediceptes phasianellus* 2288,

song, geographical variations, *Muellerianella* 3382

strains, competition, population density, *Drosophila melanogaster* 225,

sympatric populations, communication role, *Rodentia* 3429,

Reproductive status

auditory communication, intraspecific relationships, *Megaptera novaeangliae*,

Hawaii, Tropical Pacific Ocean 46,

chemical communication, pheromones, *Procambarus clarkii* 1,

effects on territorial behavior, *Troglodytes troglodytes* 2363,

pregnancy, effects on aggressive behavior, mice 65

Reproductive strategy

breeding success, parental behavior, mice 2543,

infanticide, breeding success, mathematical models, *Presbytis* 2509,

males mate selection, sexual behavior, *Marmota caligata* 1331,

mating behavior, sexual behavior, rats 2506,

nesting behavior, mating behavior, parental behavior, *Pachodynerus nasidens* 2425,

ontogeny, ovary development, sexual behavior, *Poephila guttata* 165,

oviposition synchronizability, breeding success, *Rana sylvatica* 3579,

reproductive behavior, dispersal, *Alouatta palliata* 3579,

survival, synchronizability, hatching behavior, *Larus atricilla* 2841,

territorial behavior, spatial distribution, burrows, *Thomomys bottae* 2368,

Reproductive systems

reproductive behavior, enzymatic activity, esterase 6, *Drosophila melanogaster*

1261

Reptiles

marine organisms, survival, migrations, measuring techniques, tagging 1087,

Research programs

analysis methodology, man effects on animals social behavior 1082,

Reserpine

intracranial chemical stimulation, drug effects, ventricles (cerebral),

aggressive behavior, cats 997,

- Resource allocation,**
reproductive behavior, aggressive behavior, environmental factors, assessment strategy, *Scaphophaga stercoraria* 59.
- Resource availability,**
social structure, diets, *Colobus angolensis* 2768.
- Resource exploitation,**
carnivores, mathematical models, predator-prey interactions, social interactions, territorial behavior 1068
- Resource partitioning,**
feeding behavior, clones, *Poeciliopsis 2 monacha-lucida* 2679.
feeding behavior, predation, *Notonecta*, British Isles 1436.
food availability, social organization, *Mus musculus* 3625.
foraging behavior, sympatric populations, *Andropadus latirostris*, *Bleda eximia* 2647.
- Resource utilization,**
activity patterns, sympatric populations, *Leptomymex*, *Leptomymex fragilis* 1549.
feeding behavior, competition, seasonal variations, geographical variations, Charduri, Peru 364.
- Resources,**
visual communication, agonistic behavior, *Pagurus bernhardus* 2251.
- Respiration,**
effects on geotaxis, *Lymnaea stagnalis* 625.
feeding behavior, swimming, locomotor activity, controlled conditions, *Brevortia tyrannus* 346.
frequency, ventilatory behavior, posture, juveniles, *Mammalia* 515.
measuring techniques, methodology, *Picex* 2196.
sleep, electrical stimulation, hypothalamus, effects on, cats 921.
ventilatory behavior, respiratory function, exploratory behavior, rats 1110.
ventilatory behavior, swimming behavior, larvae, *Engraulis mordax* 2834.
- Respiratory function,**
ventilatory behavior, respiration, exploratory behavior, rats 1110.
- Response,**
acquisition, autoshaping, trace conditioning, interstimulus interval, pigeons 1659.
alarm pheromone, environmental effects, *Apis mellifera* 1129.
avoidance behavior, electrolocation, nervous system analysis, *Eigenmannia* 1596.
choice, alternation learning, visual discrimination, expectancy, rats 549.
conspecific stress secretions, aversion, *Lehmannia valentiana* 1529.
cues, reinforcement, deprivation, incentive contrast, hunger, rats 1703.
drugs, clozapine, haloperidol, rats 986.
duration, autoshaping, automaintenance, pigeons 1668.
effects on prevention, avoidance behavior, rats 1755.
food availability, reinforcement schedules, pigeons 1665.
heart arousal, habituation, telencephalon ablation, *Carassius auratus* 3118.
multiple schedule, theories, pigeons, rats 1642.
rates, reinforcement, variable interval schedule, drug effects, amphetamines, rats 2161.
reaction time task, auditory stimuli, laterality effects, tones, ear 730.
reinforcement schedules, food, memory, pigeons, 1660.
reinforcement schedules, food, variable interval schedule, behavioral contrast, pigeons 1661.
song dialects, auditory discrimination, *Zonotrichia leucophrys* 1167.
variable interval schedule, carbaryl effects on, rats 2092.
visual stimuli, correlation, neurons, optic nerve, *Rana nigromaculata* 714.
- Response matching,**
discriminative stimuli, concurrent schedule, variable interval schedule, operant response, stimulus control, pigeons 1673.
operant response, pigeons 1648.
- Response prevention,**
extinction, delay, signals, avoidance behavior, rats 1738.
- Response rate,**
fixed interval schedule, statistical analysis 1637
- Response topography,**
appetitive conditioning, reinforcement, rats 1684
- Responsiveness,**
chain schedule effects on, pigeons 538
neurons, food organisms, *Bufo bufo* 1978.
neurons, sleep and wakefulness, development, rats 775.
neurophysiology, hallucinogens effects on, rats 2164.
neurophysiology, hallucinogens effects on, rats 2169.
operant conditioning, drugs effects on, statistical analysis, rats 991.
operant conditioning, intertrial interval effects on, rats 547.
punishment, drug effects, pigeons 2109.
shock, β -endorphin effects on, rats 2000.
- Responsivity,**
mating behavior, opiates antagonists effects on, hamsters 4344.
- Restiform body,**
lesions, effects on nictitating membrane response conditioning, rabbits 4228
- Resting behavior,**
activity patterns, time budgeting, temporal variations, *Colobus badius rufomitratus*, Kenya, Tana R. 517.
aggregation, sympatric populations, *Limax* 1216.
breeding status, gravid, virgin, females, *Glossina morsitans morsitans* 2418.
diurnal variations, physical activity, environmental effects, temperature, humidity, *Diptera* 2787.
EEG, cortex, nerve transmission, cats 860.
habitat preferences, environmental factors, *Glossina*, Niger, Mozambique 449.
habitat preferences, *Glossina palpalis*, Mali 436.
silk, webs, *Insecta* 2807.
trees, *Mustela erminea* 4472.
- Restraints,**
surgery, methodology 4421.
- Restriction,**
stress, schedule effects on hormones levels, rats 1116.
- Retention,**
appetitive conditioning, discrimination learning, rats 4002.
avoidance behavior, α -endorphin, γ -endorphin, rats 3155.
avoidance learning, *Helix pomatia* 2983.
avoidance learning, Kamio effect, rats 3969.
delayed response, lesions, cortex (prefrontal), guinea pigs 903.
discrimination learning, preferences, reinforcement, *Macaca mulatta* 1709.
drug effects, cycloheximide, paromycin, *Periplaneta americana* 2075.
drug effects, citracetam, rats 2157.
free conditioning, lesions effects on, amygdala, hippocampus, rats 4227.
free conditioning, p-chloramphenicol effects on, rats 1827.
free conditioning, visual stimuli, rats 3966
- Retention, (continued)**
habituation, cardiac conditioning, *Calliphora vomitoria* 529.
interference, discrimination learning, pigeons 4019.
interference, reinforcement schedules, matching-to-sample, pigeons 3993.
intervals, matching-to-sample, short term memory, pigeons 5992.
matching-to-sample, delayed reinforcement, *Cebus apella* 1708.
maternal behavior, latency, maternal effects, experience, parous state, rats 1326.
maze learning, gravity, space flight, rats 2981.
memory, recovery of function, fear conditioning, lesions, amygdala, hippocampus, trauma, rats 3184.
memory, taste aversion learning, CS, UCS, rats 1736.
memory, taste aversion learning, CS, UCS, rats 1736.
memory, visual stimuli, matching-to-sample, *Saimiri sciureus*, man 1830.
operant conditioning, stimulus control, pigeons 3904.
short term memory, stimulus control, pigeons 608.
taste aversion, age, sex differences, rats 2955.
taste aversion, conditioned response, lesions, stria terminalis, cortex (gustatory), rats 2021.
taste aversion learning, dogs 570.
taste aversion learning, morphine, post-conditioning exposure effects on, rats 3979.
- Reticular formation,**
aversive brain stimulation, effects on latent inhibition, rats 2055.
electrophysiological recording, delayed response learning behavior, motor activity, cats 843.
ESB, orientation habituation, cats 3211.
lesions, effects on habituation, startle response, licking behavior, rats 3205.
lesions, effects on maze learning, rats 3187.
- Reticulitermes,**
social interactions, conspecifics 7.
- Reticulitermes flavipes,**
interspecific relationships, defense mechanisms, *Solenopsis geminata* 1189.
population structure, sex ratio, abundance, association, colonies 85.
- Reticulitermes lucifugus,**
social behavior, nest building, colonies 2557.
- Retina,**
behavior, circadian rhythms, light effects, *Chiasmodon citrinellum* 755.
visual perception, physiology, *Rana esculenta* 828.
visual perception, visual discrimination learning, pigeons 4085.
- Retinol,**
deficiency, effects on phototaxis, photosensitivity, *Bombyx mori* 1842.
intrauterine exposure effects on ontogeny, learning behavior, rats 2912.
vitamins deficiency, feeding behavior, gustatory stimuli, juveniles, chickens 373.
- Reversal learning,**
avoidance learning, discrimination learning, shock, cues, color, *Carassius auratus* 2948.
cortex (cingulate) EEG, rabbits 3161.
discrimination learning, taste discrimination, rats 592.
discrimination learning, *Tripturus viridescens* 3988.
hippocampus, neurons depletion, rats 3151.
hypothalamus (lateral), ESB, reinforcement, rats 3210.
inhibition, reinforcement schedules, pigeons 1801.
intraocular transfer, corpus callosum, cats 591.
memory, forgetting, conditioned response, pigeons 1814.
memory, interference, retention, pigeons 1809.
predation mice, drug effects, serotonin, inducers, rats 2083.
preferences, shock, signals, rats 1802.
reinforcement schedules, preferences, delay, pigeons 1800.
- Reviews,**
aggressive behavior, brain role, man 3462.
altruism, social behavior, *Delphinidae* 2581.
autoshaping, orienting response 3900.
behavior ontogeny, early experience, imprinting 3872.
behavior, pharmacology 4417.
behavior, sex hormones role 3305.
behavioral genetics, dogs 1585.
brain photoreceptors 4148.
conditioning, associative learning 3901.
domestic animals, feeding behavior, reproductive behavior, social behavior, agricultural practices 4444.
ethology, applications 4443.
hormones, neuroendocrine system, behavior modulation, copulation, vocalization behavior 4397.
hormones, regulation, reproductive behavior, *Teleostei* 4399.
intracranial self-stimulation, neurophysiology 4267.
mating behavior, males, breeding, cattle, sheep, pigs 4449.
memory, neurophysiology, brain, *Mammalia* 4026.
neurochemistry, brain, behavior 4181.
pharmacology, drug effects 2073.
photoreceptors, circadian rhythms, photoperiod, *Invertebrata* 4149.
photoreceptors, circadian rhythms, *Vertebrata* 4163.
rearing, reproductive behavior, chickens 4446.
sleep, bibliographies 3108.
social behavior, hormones, metabolism 4398.
social behavior, predatory behavior, *Carnivora* 3835.
social organization, evolution, biology 3853.
sound production, auditory communication, biology, *Aves* 3407.
stereotyped behavior, neurophysiology, monkeys, man 4215.
toxicity testing, behavior 4277.
- Reward,**
effects on feeding behavior, *Apis mellifera* 302.
feeding behavior, hypothalamus (lateral), amygdala, role, monkeys 872.
intracranial self-stimulation, drug effects, cocaine, dissociation, *Rattus rattus* 958.
self-stimulation, ultradian rhythms, rats 757.
stereotyped behavior, brain lesions, hippocampus, *Rattus rattus* 885.
- Rhabdomya,**
digging behavior, activity patterns, substrate preferences 1573.
- Rhagoletis basiola,**
oviposition deterrents, intraspecific relationships 1130.
- Rhagoletis cerasi,**
sex pheromone, factors affecting release, role, mating behavior 3392.
- Rhagoletis indifferens,**
population density, population-environment relations, environmental factors.

- Rhagoletis indifferens**, (continued)
pupae, spatial distribution 437
- Rhaphiomidas**,
habitat, activity patterns 2796
- Rheotaxis**,
migrations, orientation, magnetism. *Proces* 3010
schooling behavior, feeding, phototaxis, larval, *Rana heckscheri* 226
- Rhesus monkeys**,
learning, effects on brain organization 876
social behavior, isolation effects on 1379
- Rhinoceros unicornis**,
territorial behavior, diets, social organization, Nepal, Chitawan Valley 3826
- Rhinocentulus lecontei**,
thermoregulatory behavior, body temperature 2822
- Rhinocypha unimaculata**,
mating behavior, courtship, display 2431
- Rhinolophus ferrumequinum**,
cleaning behavior, grooming 4468
- Rhinolophus ferrumequinum**,
colliculus anatomy, echolocation, predatory behavior 801
echolocation, neurophysiology, auditory perception, destruction inferior colliculus 669
- Rhinophrynus dorsalis**,
schooling behavior, visual stimuli, olfactory stimuli, social environment, larvae 3615
- Rhinopithecus roxellanae**,
social behavior, mimicry, convergence 3764
- Rhinopoma hardwicki**,
echolocation adaptations 1858
- Rhinopoma microphyllum**,
homing behavior, orientation 3027
- Rhinopoma microphyllum kinneari**,
feeding behavior, food preferences, diets, India, Rajasthan Desert 2740
- Rhinomys viridiaceus**,
adults, food preferences, feeding behavior, Canada, British Columbia, Vancouver 11427
- Rhizobium leguminosarum**,
motility, chemotactic response, sugars 3029
- Rhodesus ocellatus ocellatus**,
courtship, mating behavior, sex pheromone 3532
- Rhodiocichla rosea**,
feeding behavior, interspecific relationships, commensalism, *Euthlypis lachrymosa* 2719
- Rhodnius prolixus**,
foraging behavior, food sources orientation, locomotor activity 2651
molting, activity patterns, stereotyped behavior 2791
- Rhombomys opimus**,
marking behavior, social interactions, sexual reproduction 185
sexual behavior, scent marking behavior, social environment, sexual maturity, growth 3556
- Rhopalosiphum padi**,
flight activity, settling behavior, host plants 1845
- Rhythms**,
abdomen, neurophysiology, molting behavior, *Schistocerca* 1934
activity patterns, drug effects, peripheral nervous system depolarization, *Felis* 840
activity patterns, homing behavior, *Ischnochiton dispar*, *Chiton stokesi* 744
activity patterns, motivation, *Varrus jacobsoni oudemans* 3777
activity patterns, motor activity, cattle 3107
activity patterns, stereotyped behavior, infants 1627
activity patterns, wheel running, captivity, *Isoodon macrourus*, *Paramelica nasuta* 3101
cortex, thalamus, attention, immobilization, cats 862
drinking behavior, diurnal variations, mice 4141
feeding, activity patterns, measuring techniques, electronic equipment, *Channomys chanos* 3336
feeding behavior, diurnal variations, *Pandalus kessleri*, Japan Sea. Peter the Great Bay 4130
locomotor activity, feeding behavior, *Sesarma cinereum*, *Sesarma reticulatum* 3769
locomotor activity, swimming behavior, *Sarsia tubulosa* 4129
motor activity, rest-activity cycle, lutropin, sheep 3318
nest building, foraging behavior, *Hemades truncorum* 2789
nyctemeral rhythms, burrowing organisms, activity patterns, *Penaeus vannamei*, Mexico Coast 746
oviposition, acetic acid effects on, *Drosophila melanogaster* 1279
seasonal variations, grooming, photoperiods, lesions, pons, cats 1939
sexual reproduction, hibernation, endogenous stimuli, *Eutamias amoenus*, *Eutamias minimus* 3102
sleep and wakefulness, locomotor activity, rats 3112.
- β-Rhythms**,
attention, ventral mesencephalic tegmentum regulation, cats 4204
- Rhytidoponera metallica**,
feeding behavior, seeds, dispersal, *Lepidosperma laterale*, *Eucalyptus* 323.
- Rhyzopertha dominica**,
aggregation pheromone, mating behavior, males 1136.
- Ribonuclease**,
seminal fluid, effects on, copulation, rats 1323.
- Riparia riparia**,
mobbing, anti-predator behavior, *Streptopelia decaocto* 2849.
- Rissa brevirostris**,
foraging behavior, social interactions, adults, juveniles 2725
- RNA biosynthesis**,
learning behavior, hippocampus, cortex, drug effects, ethymizol, rats 960
limbic system, reflexes conditioning effects on, rabbits 786
- mRNA**,
biochemical transfer, discrimination learning, rats 4166.
- Reacts**,
walking movements, walking, *Odocoileus hemionus* 490.
- Rodentia**,
activity patterns, weather effects on, Canada, Quebec 483.
alcohol, intrauterine exposure, effects on learning behavior, activity patterns 3244.
cerebral dominance, asymmetry, early experience 3132.
diets, feeding behavior 1498.
foraging behavior, seeds localization, soil moisture effects on 2752.
mating behavior, copulation, adaptiveness, males 1325.
- Rodentia**, (continued)
neurophysiology, visual perception, motor activity, ethology, niche position 1566.
reproductive isolation, sympatric populations, communication role 3429.
sensitivity stimuli, avoidance learning 1742
vocalization behavior, ultrasound, hormones, social interactions, sexual reproduction 4403
- Romerolagus diazi**,
sexual behavior, mating behavior 2492
- Roosting**,
communication, Aves 1166
- Roosting behavior**,
Coleura seychellensis, Seychelles 4473.
environmental effects, *Chaetura pelagica* 476
feeding behavior, activity patterns, winter, Motacilla alba, Briush Isles, Oxford 1366
habitat preferences, feeding behavior, *Agelaius phoeniceus*, Canada, Ontario 1564.
habitat preferences, *Geus canadensis tabida* 2838.
locomotor activity, restlessness, environmental factors, sunlight, social environment, *Turdus migratorius* 2836
site selection, seasonal variations, *Sturnus vulgaris* 2572.
- Rosa carolina**,
host plants, effects on predation, *Misumena vatia* 273.
- Rotation**,
grazing, irrigated areas, pasture, stocking rates, body weight, sheep 414.
lesions, substantia nigra, dopamine, neurotransmitters, grafting, adrenal chromaffin cells, rats 896
visual perception, measuring techniques, equipment 1071.
- Rousettus aegyptiacus**,
circadian rhythms, activity patterns 1930
- Routes**,
navigation behavior, magnetic fields, *Apodemus sylvaticus* 668
- Rubidium**,
stereotyped behavior, open-field behavior, exploratory behavior, rats 1112.
- Running**,
circadian rhythms, photoperiods effects on, *Periplaneta americana* 752.
convulsions, physiology mechanisms, mice 4070.
frustration, blocking, rats 1104.
locomotion, morphology, leg. *Carabidae* 4069
locomotor activity, pons lesions effects on, rats 894
- Runway learning**,
reinforcement, Anura 1645.
shock, learned helplessness, aversion, appetitive conditioning, mice 1754.
- Rutilus rutilus**,
biacoustics, swim bladder 734
telencephalon lesions, habitation, arousal 3182.
- Rynchops niger**,
breeding success, colonies, habitat preferences, USA, New Jersey, Barnegat Bay 2464
parental behavior, aggressive behavior, defensive behavior, sex differences, energetics, monogamy 2532
yawning behavior, head-scratching, endogenous stimuli 2897.
- Saccharin**,
cues, associative learning, shock, avoidance behavior, rats 1749
effects on food consumption, *Onychomys leucogaster* 1501.
taste aversion, conditioned response, drug effects, bombesin, rats 977.
taste aversion learning, memory inhibition, cycloheximide, effects on, rats 4153.
taste aversion learning, obesity, mice 1767
- Sagartianthus fasciarum**,
locomotion, locomotor activity 670
- Saguinus**,
association, social organization, ecological distribution effects on, *Callimico goeldii*, Bolivia 1380
- Saguinus fuscicollis**,
castration, effects on aggressive behavior, scent marking behavior, social interactions 244
- Saguinus fuscicollis fuscicollis**,
social behavior, territorial behavior, aggressive behavior, intruder 1384.
- Saguinus midas**,
agonistic behavior, social interactions, scent marking behavior 3643.
- Saguinus oedipus**,
agonistic behavior, social interactions, scent marking behavior 3643.
- Saguinus oedipus oedipus**,
breeding, husbandry 1341
- Saimiri sciurea**,
social behavior, territorial behavior, aggressive behavior, intruder 1384.
cortex waves, reinforcement signals effects on 878.
- Saimiri**,
amphetamines, chlorhidazepoxide, effects on, conditioned reinforcement, operant response 2173.
arousal, light effects, drug effects, amphetamine, methylphenidate 741.
balance, tails length 499
classical conditioning, blood pressure, heart rate 2946
cortex activity, operant conditioning 4217.
drug effects, amphetamine, response, second-order schedule, visual stimuli 1026.
drug effects, clozapine, fixed interval schedule, stimulus-shock termination 2172
emotional behavior, fixed ratio schedule, depression, models 543
ESB, social behavior, communication 2060
intrauterine exposure, radiation, effects on visual discrimination learning 2924.
operant response, neurophysiology association, heart rate, blood pressure 4216.
predators effects on escape behavior, stress, Constrictor constrictor 2240.
reproductive behavior, sexual maturity, hormones 195.
social behavior, aggressive behavior, hormones 3330.
- Saimiri sciureus**,
exploratory behavior, activity patterns, juveniles 2226.
intracranial chemical stimulation, nucleus accumbens, dopamine, locomotor activity, catalepsy 2011.
intraspecific relationships, spatial distribution, environmental effects, hormones 1227
memory, retention, matching-to-sample 1830.
optomotor response, visual perception, visual stimuli 729.
problem solving, social organization, sympatric populations, *Callicebus moloch*

- Saimiri sciureus**, (continued)
4018
social organization, food exploratory behavior, social behavior 249.
vocalization behavior, classification, statistical analysis 2315.
- Saltia piscular**,
coloration, aggressive behavior, mimicry 2798.
- Salamandra salamandra**,
visual discrimination, forebrain lesions effects on 3181.
- Salicoria**,
habitat preferences, nesting behavior, *Ammosiza maritima* 420.
- Salkylate**,
thermoregulation effects on self-stimulation, air temperature, rats 2046
- Salenia**,
calling behavior, sound production, intensity, mating, Africa 3396.
phototaxis, light intensity 4042.
- Saline water**,
intracranial chemical stimulation, effects on maze learning, brain lesions, rats 4271.
- Salinity effects**,
osmoregulation, shells movements, *Scrobicularia plana* 423
- Salinity tolerance**,
osmoregulation, ecological distribution, *Galeolaria caespitosa*, Australia Coast 2772.
- Saliva**,
chemical stimuli, effects on social behavior development, *Meriones unguiculatus* 242.
- Salivation**,
drug effects, p-chloroamphetamine, rats 2153.
- Salmo clarki**,
feeding behavior, aggressive behavior, sympatric populations, *Salmo gairdneri* 2321.
- Salmo gairdneri**,
chemotaxis, attractants, morpholine 4044.
feeding behavior, aggressive behavior, sympatric populations, *Salmo clarki* 2321.
feeding behavior, diets, diurnal variations, periodicity 345.
feeding behavior, food organisms, juveniles 3693.
feeding behavior, periodicity, diets, diel variations 2669
heavy metals, pollution levels, avoidance behavior 3805.
orientation, water currents, migrations, juveniles 3009.
visual perception, light, polarization 715.
- Salmo salar**,
chemotaxis, attractants, morpholine 4044.
swimming behavior, water flow velocity, horizontal distribution 469.
- Salmo trutta**,
activity patterns, competitive behavior 695.
chemotaxis, attractants, morpholine 4044.
competition, spatial distribution, streams, *Salvelinus fontinalis*, USA, Michigan 2826.
swimming behavior, water flow velocity, horizontal distribution 469.
tactemetry, monitoring, swimming behavior 693.
territorial behavior, activity patterns 694.
- Salmonella typhimurium**,
chemotaxis, glycine, HeLa cells 4031.
- Salpingotus crassicauda**,
comfort behavior, cleaning behavior 492.
- Salticidae**,
systematics, use, display, courtship, agonistic behavior 3378.
vision, predatory behavior, predatory aggression, literature reviews 1405.
- Salticus scemicus**,
intraspecific relationships, fighting 55.
- Salvelinus fontinalis**,
behavioral genetics, agonistic behavior, maternal effects 2882.
competition, spatial distribution, streams, *Salmo trutta*, USA, Michigan 2826.
- Salvelinus namaycush**,
behavioral genetics, agonistic behavior, maternal effects 2882.
- Sampling**,
duration, avoidance behavior, toxins, cues, rats 1739.
methodology, cerebrospinal fluid, guinea pigs 1095.
observation methods, copulation, *Macaca arctoides* 4438.
- Sanitation**,
social behavior, excretory products distribution, colonies, *Mallos gregalis* 1359.
- Sargasso Sea**,
feeding behavior, *Siphonophora* 278.
- Sarotherodon mossambicus**,
visual perception, light, polarization 715.
- Sarotherodon mossambicus**,
motivation, parental behavior, brood care 4128.
- Sarisa tubulosa**,
rhythms, locomotor activity, swimming behavior 4129.
- Sartherodon mossambicus**,
visual perception, eye movements 1887.
- Satiation**,
feeding behavior, *Aplocheilus lineatus*, *Macropodus cupanus* 2686.
- Safety**,
cholecystokinin peptides, intracranial chemical stimulation effects on food intake, sheep 2066.
effects on appetitive conditioning, rats 1700.
effects on imprinting, reinforcement, rats 1517.
effects on taste preferences, appetitive conditioning, rats 3923.
feeding behavior, drinking behavior, rats 3754.
feeding behavior, food intake, hormones, mice 385.
food intake regulation 3653.
food intake, regulation, hypothalamus 4180.
food intake, role, small intestine, *Macaca mulatta* 1970.
food intake, triglycerides infusion, taste aversion, conditioned response, rats 3759.
lesions, amygdala, rats 2036.
physiology, hormones effects on 254.
regulation, food intake, nutrients effects on, rats 395.
- Saxicola rubetra**,
foraging behavior, food availability 1469.
- Saxicola torquata**,
display, wing-flicking behavior 3421.
song, parental behavior, males 2538.
- Scapanus orarius**,
activity patterns, movements, diel variations 2853.
- Scaphytopius acutus**,
vectors, feeding behavior, food preferences, *Prunus persica*, *Trifolium pratense* 294.
- Scapteriscus aetetus**,
food preferences, food availability 1426.
- Scapteriscus vicinus**,
landing behavior, orientation, phototaxis 1905.
food preferences, food availability 1426
- Scarus taeniopterus**,
anti-predator behavior, sheltering behavior, night, West Indies, Barbados Coast 3806.
- Scathophaga stercoraria**,
assessment strategy, aggressive behavior, environmental factors, reproductive behavior, resource allocation 59.
territorial behavior, mating behavior, size effects on 127.
- Scavenging behavior**,
drinking behavior, *Crotalus ruber* 2664
- Scelliphron madraspatanum conspiciatum**,
feeding behavior, food preferences, Arachnida 1438.
- Sceloporus jarrovi**,
chemical perception, conspecifics, role tongue 4105.
chemoreception, tongue, exploratory behavior 1912.
- Sceloporus occidentalis biseriatus**,
licking behavior, conspecifics, pheromones 3614.
- Sceloporus virgatus**,
factors affecting activity patterns, breeding success, territorial behavior 1594.
- Scent gland**,
development, castration effects on, *Saguinus fuscicollis* 244.
- Scent marking behavior**,
agonistic behavior, social interactions, monkeys 3643.
castration effects on, *Saguinus fuscicollis* 244.
chemical communication, rats 3423
chemical communication, conspecific odors, preferences, *Meriones hurrianae* 3428.
chemical communication, conspecific odors recognition, *Spermophilus columbianus* 3424.
chemical communication, foraging behavior, *Bombus vosnesenskii* 1133.
defecation, orientation, *Martes martes* 3480.
estrous cycle, hamsters 1327.
females, chemical stimuli effects on, males androgens, rats 3572.
foraging behavior, *Apis mellifica* 2272.
foraging behavior, *Procyon lotor* 3433.
hormones, *Meriones unguiculatus* 4404.
isolation effects on, *Meriones unguiculatus* 1918.
mating behavior, *Lycyon pictus* 188.
movements, *Felis* 3865.
olfaction, sexual reproduction, Vertebrata 1913.
reproductive behavior, horses 2507.
sex pheromone, trail pheromone, *Pseudococcus calceolariae* 1137.
sexual behavior, social environment, *Rhombomys opimus* 3556.
social behavior, sexual behavior, *Calithrix jacchus* 2512.
territorial behavior, aggressive behavior, *Polistes nimpha* 2345.
territorial behavior, *Litocranius walleri* 3478.
trail following behavior, olfactory stimuli, maze learning, rats 4015.
- Schedule**,
effects on conditioned response, conditioned reinforcement, pigeons 1663.
effects on performance, avoidance learning, escape behavior, rats 1723.
operant conditioning, *Carassius auratus* 533.
restriction, stress, effects on hormones levels, rats 1116.
shock, effects on avoidance learning, rats 583.
- Schedule-induced behavior**,
amphetamine effects on, monkeys, pigeons 4278.
anticholinergic compounds effects on, atropine, benactyzine, scopolamine, *Macaca mulatta* 4388.
attack, adjunctive behavior, reinforcement schedules, pigeons 1688.
drugs, cocaine, monkeys 1028.
drugs, nicotine, monkeys 1030.
hallucinogens, N,N-dimethyltyrptamine, rats 3298.
lead effects on, catecholamines, brain, pigeons 3225.
operant conditioning, neurochemistry, catecholamine, *Rattus rattus* 841.
operant response, shock, drug effects, diazepam, rats 2126.
pesticides (organochlorine), chlormediform, effects on, pigeons 3224.
polydipsia, adjunctive behavior, fixed time schedule, rats 1676.
polydipsia, adjunctive behavior, stimuli generalization, rats 1784.
polydipsia, alcohol, food availability, rats 3930.
polydipsia, cortex lesions, rats 4238.
polydipsia, feral populations, domestic animals, hybrids, rats 1707.
polydipsia, tetracycline effects on, rats 4336.
terminology, reinforcement schedules 2247.
toluene, effects on, mice 3253.
wood chewing, rats 3945.
- Scheduled reinforcement**,
aggressive behavior, strains, pigeons 1199.
- Schistocerca**,
molt behavior, neurophysiology, abdomen, rhythms 1934.
- Schistocerca americana gregaria**,
visual perception, ocelli neurons, effects on orientation 711.
- Schistocerca gregaria**,
feeding behavior, regulation 306.
flight activity, environmental factors, wind, food, temperature 1861.
- Schistopterum moebiusi**,
mating behavior 3521.
- Schistosoma mansoni**,
orientation behavior, chemical stimuli, disease transmission, *Biomphalaria* 626.
- Schizocosa ocreata**,
acoustic communication, reproductive behavior 1127.
- Schizocosa royneri**,
acoustic communication, reproductive behavior 1127.
- Schizothaenus pineti**,
anti-predator behavior, aggregation behavior, social behavior, predator-prey interactions, Syrridae 3782.
- Schooling behavior**,
behavioral genetics, genotypes, community composition, heterogeneity, *Notropis cornutus* 1583.
caffeine, effects on spatial distribution, *Hemichromis bimaculatus* 4282.
communication, chemoreception, Teleostei 2285.
 β -endorphin, *Carassius auratus* 3143.

Schooling behavior, (continued)

- feeding, phototaxis, rheotaxis, larvae, *Rana hecksleri* 226
- mathematical models, *Pisces* 1067
- social organization, definition, *Pisces* 2570
- social organization, denervation, lateral line nerves, *Notemigonus crysoleucas* 2353
- spatial distribution, orientation, larvae, *Bufo woodhousei*, *Xenopus laevis* 3796
- Sphyrna lewini* 1848
- visual stimuli, olfactory stimuli, social environment, larval, *Rhinophrynus dorsalis* 3615.

Scirtes orbiculatus.

- pheromone traps, sex pheromone, *Trichoplusia ni* 1836

Sciurus aberti.

- food preferences, food composition effects on, monoterpene 1508

Sciuridae.

- behavior ontogeny, comparative studies 520

Sciurus aberti.

- food preferences, taste perception, chemical stimuli, *Pinus ponderosa* 392

Sciurus carolinensis.

- foraging behavior, food preferences, nuts 2745

Sciurus vulgaris.

- food organisms, predation, feeding behavior, *Accipiter gentilis*, Sweden 1480

Scombridae.

- fish larvae, food selection, food composition, feeding behavior 340

- visual perception, color blindness 3053

Scopimera globosa.

- activity patterns, feeding behavior 3768

Scopolamine.

- anticholinergic compounds, effects on schedule-induced behavior, *Macaca mulatta* 3388.

- avoidance learning, locus coeruleus, ablation, rats 571

- drug effects, aggressive behavior, olfactory bulb ablation, brain enzymatic activity, rats 1964

- effects on avoidance behavior, locomotor activity, age, rats 4347

- effects on exploratory behavior, novelty, rats 3290

- effects on locomotor activity, 6-hydroxydopamine lesions, rats 890

- effects on memory, gerbils 3285

- effects on memory, *Putorius furo* 4178

- effects on visual discrimination learning, rats 4354

- role, memory, maze learning, rats 4029

Scopolumine hydrobromide.

- drug effects, UCS, aversion, rats 2151

Seroliscaia plana.

- pollution effects, zinc, valves movements 2776

- salinity effects, osmoregulation, shells movements 423

Seasonal variations.

- activity patterns, mathematical models, *Odocoileus virginianus* 2861

- activity patterns, movements, *Ovibos moschatus* 2862

- activity patterns, temperature effects, *Rattus fuscipes* 482

- activity patterns, thermoregulatory behavior, *Agkistrodon contortrix* 2818

- aggressive behavior, *Macaca fuscata* 3460

- aggressive behavior, population dynamics, *Microtus ochrogaster*, *Microtus pennsylvanicus* 3455

- aggressive behavior, sexual behavior, males, *Macaca fuscata* 193

- anti-predator behavior, mobbing, *Turdus migratorius*, *Otus asio* 2840

- auditory perception, conspecifics vocalization behavior, neurons, *Alytes obstetricans* 3070

- brain, electrical properties, *Carassius auratus* 3141

- burrowing behavior, food preferences, sexual reproduction, environmental factors, *Thomomys bottae* 489

- burrowing behavior, population density, *Brachytrypus portentosus* 2788

- circadian rhythms, activity patterns, *Pteromys volans* 759

- cleaning behavior, *Aves* 2848

- crop content, feeding behavior, seasonal variations, *Tetraodon* 2694

- diel activity, flight activity, *Culicoides variipennis*, *Culicoides repuscularis*, *Culicoides hirsutipennis*, *Culicoides palmerae*, USA, Colorado 680

- diets, feeding behavior, *Clethrionomys gapperi*, Canada, Ontario 2741

- diets, food availability, habitat preferences, *Meles meles*, Italy 1494

- diets, food preferences, *Peromyscus maniculatus* 2748

- diets, herbivory, *Platyercus eximius*, *Platyercus adustus*, Australia 1472

- diets, predation, food selection, *Tadorna tadorna*, British Isles, Scotland 353

- diets, predation, *Tadorna tadorna*, *Hydrobia* 352

- dispersal, flight activity, *Tetraopes tetraepthalmus*, USA, Vermont, USA, New Hampshire 681

- effects on aggressive behavior, *Macaca fuscata* 79

- feeding behavior, competition, resource utilization, Chadarini, Peru 364

- feeding behavior, diets, *Penaeus monodon* 3659

- feeding behavior, diets, *Procyon lotor*, Canada, Quebec 2737

- feeding behavior, food preferences, *Callorhinus ursinus* 2757

- feeding behavior, food preferences, *Mylus milvus*, British Isles, Wales 357

- feeding behavior, food preferences, *Tyto alba*, British Isles, Wales 350

- feeding behavior, *Glyptothorax pectinopterus* 2675.

- feeding behavior, substrate preferences, environmental factors, sex differences, *Picoides borealis*, USA, South Carolina 366.

- flight activity, environmental effects, weeding, *Dendroctonus frontalis* 455

- flight activity periodicity, *Odonata* 2786.

- food availability, feeding behavior, interspecific relationships, *Lutra lutra*, *Mustela vison*, British Isles 380.

- foraging behavior, *Aepyceros melampus* 2756.

- foraging behavior, *Atta insularis* 2654.

- foraging behavior, interspecific relationships, intraspecific relationships, *Bombus* 2639

- foraging behavior, *Parulidae* 3710.

- home range, ranging behavior, *Ursus americanus* 2854.

- home range, sex differences, *Sus scrofa*, USA, Tennessee 485.

- home range, territorial behavior, radio-tagging, *Capreolus capreolus* 2365.

- horizontal distribution, environmental factors, *Acipenser transmontanus*, USA, Columbia R. 470.

- hormones, behavior, *Anser indicus*, Germany, Fed. Rep., Seewiesen 4400.

- matting behavior, circadian rhythms, *Chilo suppressalis* 1264.

- migrations, daily, *Acipenser transmontanus*, USA, Washington, Columbia R. 1847.

- migrations, *Nilaparvata lugens* 442.

- migrations, overwintering, *Larus ridibundus*, Switzerland 657.

- migrations, spawning, feeding, *Gadus morhua callarias*, Baltic Sea 651.

- migrations, surveys, *Aves*, USA, Alaska, Shemya I 656.

- milk production, weather, emotionality, *Bos bubalis* 4452.

Seasonal variations, (continued)

- nest building, population studies, Pan troglodytes, Equatorial Guinea, Senegal 3857

- parental behavior, reproductive behavior, evolution, social behavior, *Cauidndae* 507

- pheromones production, *Apis mellifera* 8.

- photoperiods, circadian rhythms, photoperiods, environmental conditions, entrainment, *Cossus plumbice* 1935

- predation efficiency, *Cynodontidae*, *Decapoda* 418.

- reproductive behavior, hormones effects on, *Merpestes eupunctatus* 1057

- reproductive behavior, *Ligia* 3490

- reproductive behavior, mating, sexual receptivity, *Macaca mulatta* 3580.

- reproductive behavior, *Pontopona blainvillii* 180.

- rythms, grooming, photoperiods, lesions, pons, cats 1939.

- site selection, roosting behavior, aggregation behavior, *Sturnus vulgaris* 2572.

- social interactions, *Alces alces* 238

- social organization, subtrooping, *Papio ursinus*, South Africa, Suikerbosrand 3647.

- social structure, social behavior, *Taurotragus oryx* 2584.

- song, brain anatomy, *Serinus canarius* 2299.

- vocalization behavior, *Canis latrans* 3435.

Sebastes serranoides.

- feeding behavior, diets 1456

Second-order schedule.

- discrimination learning, pigeons 540

- multiple schedule, conditioned response, pigeons 1759

- second-order conditioning, serial compound conditioning, nictitating membrane response conditioning, reinforcement, variable interval schedule, rabbits 1702.

- visual stimuli, drug effects, amphetamine, response, *Saimiri* 1026.

Secreant.

- nectar, effects on feeding behavior, *Brassica campestris*, *Apis* 303.

Secretions.

- avoidance behavior, predators, *Notophthalmus viridescens*, *Dytiscus verticalis* 1716

- exocrine glands, trail pheromone, trail following behavior, *Polybia seneca* 2257.

- sternal gland, chemical communication, *Anuretus simoni* 1146.

- vagina, chemical communication, pheromones, Pan troglodytes 3439

Sediments.

- oil pollution, feeding behavior, *Protithaca staminea*, Cancer magister, USA, Washington Coast 2621

- organic matter ingestion, detritus feeders, estimation methodology, *Nucula annulata* 2613

Seeds.

- Enterolobium cyclocarpum*, dung attractancy, learning behavior, *Liomys salvini* 1952

- feeding behavior, *Aves* 1477

- feeding behavior, *Thraupidae*, *Cecropia concolor* 2704

- feeding behavior, *Tribulus cistoides*, *Geospiza magnirostris*, *Geospiza fortis* 1483

- food plants, feeding behavior, *Nucifraga columbiana*, *Pinus* 369.

- food preferences, comparative studies, *Cardinalis cardinalis*, *Spizella pusilla* 358

- food preferences, feeding behavior, *Pogonomymex rugosus*, *Veromessor pergandei* 1457

- foraging behavior, *Nucifraga columbiana* 2726

- fruits, dispersal, coevolution, frugivores 2597

- hoarding behavior, foraging behavior, *Corvidae* 3731.

- localization, foraging behavior, soil moisture effects on, *Rodentia* 2752.

- Trifolium repens*, phenology, behavior, morphology, *Apis mellifera* 1544.

Segregation.

- effects on social interactions, population density, *Ursus maritimus* 2579.

Sciurus aurocapillus.

- song, vocalization behavior, territorial behavior, courtship 41.

- vocalization behavior, breeding adults 40.

Seizures.

- susceptibility, weaning, alcohol effects on, mice 2108

Selection.

- breeding sites, effects on breeding success, *Pseudolabrus celidotus* 154.

- effects on emotional behavior, chickens 501.

- evolution, behavioral genetics, sociobiology 2873.

- food organisms, predatory behavior, *Accipiter nisus*, *Parus* 2716.

- heritability, aggressive behavior, *Mus musculus* 2884

- inbreeding, effects on mating behavior, *Drosophila melanogaster* 2878.

- open-field behavior, heritability, chickens 2883

- perching behavior, strains, genetic variance, chickens 3338.

- reproductive behavior, social behavior, intraspecific relationships, *Apelocoma coerulescens insularis* 230

- stress, open-field behavior, noradrenaline, sympathetic nervous system, rats 3147

Selectivity.

- association, theories, dogs 2187.

- attention, lithium effects on, rats 2148

- attention, visual evoked response, neurons 1972.

Self-administration.

- ESB, hypothalamus, escape behavior, aversion-amelioration, rats 4263.

Self-assessment.

- blood pressure, training, methodology, operant conditioning, *Papio cynocephalus* 1098

Self-injury.

- methylxanthine, caffeine effects on, rats 3266.

- stereotyped behavior, pemoline, drug effects, rats 4476.

Self-punitive behavior.

- aversion learning, man 1769.

- CS, extinction, *Rattus rattus* 544

- drug effects, methylphenidate, conditioned response, extinction, *Rattus rattus* 964

- punishment, rats 4475.

- wrist biting, *Macaca fuscata fuscata* 4474.

Self-stimulation.

- body temperature, sacilicate, air temperature, rats, effects on 2046.

- electrophysiological recording, neurons, tegmentum, hypothalamus, rats 4157.

- hypothalamus, electrical stimulation, hibernation, body temperature, *Citellus tridecemlineatus* 923.

- hypothalamus electrical stimulation, reinforcement dissociation, rats 918.

- intracranial chemical stimulation, drug effects, desipramine, rats 2118.

- motivation, ultradian rhythms, rats 757.

Self-stimulation, (continued)

- operant response, drug effects, rats 2115
- recognition, Pongo, Pan, Gorilla 602.
- reinforcement, drug effects, pimozide, taste preferences, rats 2147.
- reinforcement, etioxadrol, dexoadrol, monkeys 3232.
- reinforcement, punishment, electrical stimulation, monkeys 1711
- septum, delayed response, emotional behavior, stress, cats 1106.
- substantia nigra, amphetamine depression, drug effects, lithium, rats 1003.
- substantia nigra, intracranial recordings, mapping, rats 916.

Seminal fluid,

- ribnucleic acid, effects on, copulation, rats 1323.

Sense organs,

- chemotaxis, host plants orientation, larvae, *Hylemyia antiqua* 644.
- effects on mating behavior, *Blattella germanica* 1275.
- functional morphology, auditory perception, *Tettigoniidae* 1908.
- swimming behavior, orientation, direction finding, waves, *Aplysia brasiliana* 632.

Sensilla,

- chemoreceptors, ultrastructure, role, feeding behavior, *Macrosteles fascifrons* 2642
- gravity receptors, orientation, *Arenivaga* 1907

Sensitivity,

- apomorphine, DFP effects on, climbing, mice 990
- behavior, neurotransmitters, intracranial chemical stimulation, 5-hydroxytryptophan, rats 792
- dopamine, chronic exposure, haloperidol, neuroleptics, grooming, mice 856.
- dopamine receptors, effects on avoidance learning performance, rats 978.
- dopamine receptors, fluphenazine decanoate, rats 968
- dopamine, sleep (REM) deprivation effects on, depression, rats 774.
- ethanol, escape behavior, rats 2138.
- gravity, neurons, orientation, *Gryllus* 640.
- haloperidol, age effects on, activity patterns, rats 3302.
- haloperidol, chronic effects, levallorphan-carbidopa, guinea-pigs 3289.
- insensitivity, reinforcement schedules, taste aversion learning, polydipsia, rats 1747
- light, electroretinograms, diurnal variations, pigeons 720.
- light, ultraviolet radiation, compound eyes, light traps, *Spodoptera exigua*.
- Spodoptera frugiperda* 712
- muscles, salinity effects, *Scrobicula plana* 423.
- neurons, substantia nigra, neurotransmitters, lesions, striate cortex, rats 3157.
- operant response, attention task, alternation learning, contingency, man 1710.
- shock, discrimination learning, morphine effects on, rats 989
- stimuli, avoidance learning, *Rodentia* 1742.
- taste perception, visual stimuli, light effects on 1900
- threshold, electric currents, conditioned response, *Carassius auratus*, *Phoxinus phoxinus*, *Leuciscus leuciscus* 3080
- visual perception, menstrual cycle, effects on 1897

Sensitization,

- auditory stimuli, avoidance learning, rats 3970.
 - habituatation, song, *Zonotrichia leucophrys nuttalli* 3892.
 - reflexes (gill-withdrawal), *Aplysia californica* 820.
- Sensors,**
- instruments, locomotion, stereotyped behavior, rats 1093.
- Sensory reinforcement,**
- memory, intracranial self-stimulation, hypothalamus, rats 3215.
- Sensory stimuli,**
- acoustic startle response, habituation, rats 531.
 - deprivation, effects on learning behavior, juveniles, ducks 1602.
 - early experience, discrimination learning, cortex (visual) lesions 2056.
 - echolocation, feeding behavior, *Antrozous pallidus* 3736.
 - environmental effects, recovery of function, cortex (entorhinal) lesions, rats 2020
 - feeding behavior, spawning, *Clupea harengus pallasi* 1296.
 - flight activity, *Hypera postica* 4067.
 - maternal behavior, endocrine system regulation, juveniles, Ovis 203.
 - offspring recognition, mother offspring interactions, horses 2548.
 - role, predatory behavior, *Trinitus alpestris* 2665.

Separation,

- effects on maternal behavior, mother-offspring interactions, goats 3599.
 - infants, effects on immune response (cell-mediated), monkeys 527.
 - mother-offspring interactions, effects on distress, hydrocortisone plasma levels, *Macaca mulatta* 209.
 - mother-offspring interactions, motor activity, rats 2915.
 - sympatric populations, habitat preferences, activity patterns, *Peromyscus maniculatus*, *Clethrionomys gapperi*, *Napaeozapus insignis* 488.
- Septum,**
- activity, appetitive conditioning, classical conditioning, excitation, inhibition, rats 839.
 - chemoreceptors, dopamine drugs, stereotyped behavior, locomotor activity, cats 450
 - hippocampus, cognitive mapping, maze learning, memory, lesions, rats 4236.
 - intracranial chemical stimulation, scopolamine, nictitating membrane response conditioning, rabbits 838.
 - lesions, aggressive behavior, social environment effects on, mice 4248.
 - lesions, aggressive behavior, tryptophan, diets, rats 2022.
 - lesions, behavioral contrast, punishment, suppression, rats 887.
 - lesions, defensive behavior, flight, cats 2018.
 - lesions, discrimination learning performance, stimulus preexposure, rats 4007
 - lesions, effects on aggressive behavior, mice 74.
 - lesions, effects on avoidance learning, rats 580.
 - lesions, effects on drinking behavior, alcohol, rats 4226.
 - lesions, effects on maze learning, rats 3192.
 - lesions, effects on muricide, gentling, rats 4247.
 - lesions, effects on, social behavior, attack, rats 3199.
 - lesions, intraspecific relationships, aggressive behavior, males, hamsters 883.
 - neurophysiology, conditioning 3130.
 - self-stimulation, delayed response, emotional behavior, stress, cats 1106.
 - testosterone, effects on sexual behavior, females, rats 4412

Sequence,

- cow entry order, orientation, locomotor activity, milk production, yield, cattle 1854.
- Serial anticipation learning,**
- memory, discrimination learning, rats 4014
- Serial learning,**
- operant response, short term memory, pigeons 3912.
- Serial reversal learning,**
- discrimination learning, potentiation, pigeons 2978

Sericothrips variabilis,

- anti-predatory behavior, predatory behavior, *Orius insidiosus* 1551.

Serinus canarius,

- neurophysiology, brain, motor activity, vocalization behavior, song 811.
- song, seasonal variations, brain anatomy 2299
- vocalization behavior, song, deafness 3417.
- vocalization behavior, song, forebrain size, sex differences 782.

Serola quinqueradiata,

- visual perception, light, polarization 715.

Serotonin,

- brain lesions, raphe nuclei, exploratory behavior, rats 2225.
- cerebrum levels, drug effects, analgesics, rats 944.
- drug effects, hallucinogens, discriminative stimuli, rats 2158.
- drug effects, inducers, predation mice, reversal learning, rats 2083.
- effects on escape behavior, rats 2002.
- effects on tonic immobility, chickens 1122.
- effects on yawning behavior, cats 1967.
- mating behavior, females, rats 793
- neurotransmitters, biochemical characteristics, metabolism, delayed response, cats 866.
- predation, aggressive behavior, mice killing, neurochemistry 865.
- role, memory, rats 1827.

Serpentes,

- behavior ecology 459.
- chemoreception, tongue flicking behavior 4104
- predation, effects on feeding behavior, pollinators, *Chiroptera* 3679.

Serastruma serrula,

- predation, feeding behavior 324.
- predatory behavior, attack, capture 2656.
- predatory behavior, food organisms, *Folsomia candida* 3668.
- predatory behavior, predator-prey interactions, *Folsomia candida* 316.

Serum levels,

- enzymes, stress, halothane, correlation, pigs 1118.
- sex hormones, estradiol, progesterone, sexual behavior, ovary, ablation, rats 1052.
- sex hormones, gonadotrophins, androgens, sexual behavior, males, hamsters 1041.
- thyroid hormones, radioimmunoassay, hibernation behavior, thyroidectomy, *Spermophilus richardsoni* 1044.

Sesarma cinereum,

- locomotor activity rhythms, feeding behavior 3769.

Sesarma reticulatum,

- locomotor activity rhythms, feeding behavior 3769.

Setonix brachyurus,

- sheltering behavior, intraspecific relationships, competition, niche, carrying capacity 2857.

Setophaga ruticilla,

- maturation, feathers, agonistic behavior, reproductive behavior 513.

Settling behavior,

- flight activity, *Rhopalosiphum padi* 1845.
- locomotor activity, host plants, *Aphis citricola*, *ovatus malisuctus* 453.
- survival, spatial distribution, aggregation, *Portia portia* 83.

Sewage sludge,

- crop fields, effects on swimming behavior, *Microtus pennsylvanicus* 2842.

Sewage treatment plants,

- migrations, Anatidae, Germany, Fed. Rep. 654

Sex,

- preferences, orientation, huddling, social behavior, juveniles, rats, *Rattus norvegicus* 1378.
- social behavior, mother-offspring interactions, sexual dimorphism, *Macropus robustus*, Australia 245.
- tactile discrimination, interspecific relationships, *Notonecta alauca* 105.

Sex determination,

- sexual behavior, hormones aroma effects on, *Mesocricetus auratus* 186.

Sex differences,

- acquisition, retention, conditioned response, taste aversion, rats 2955.
- activity patterns, hormones effects on, rats 1058.
- aggression, aggressive behavior, intraspecific relationships, activity patterns, *Sturnus vulgaris* 650.
- aggression, territorial behavior, *Larus delawarensis*, USA, Michigan 2325.
- aggressive behavior, *Macaca fuscata* 3460.
- aggressive behavior, population regulation, *Clethrionomys gapperi*, Canada, Manitoba 1567.
- aggressive behavior, social behavior, *Macaca mulatta* 2342.
- agonistic behavior, hormones effects on, *Macaca mulatta* 873.
- brain weight, enrichment, early experience, undernutrition 3122.
- cholesterol serum levels, behavior correlation, *Cercopithecus aethiops* 808.
- diet activity, *Tamiasciurus hudsonicus*, Canada, British Columbia 2860.
- drinking behavior, drug effects, naloxone, MIF-1 peptides, rats 2156.
- effects on aggressive behavior, *Macaca fuscata* 79.
- feeding behavior, food composition, predators, habitat preferences, *Trionyx muticus* 327.
- feeding behavior, substrate preferences, environmental factors, seasonal variations, *Picoides borealis*, USA, South Carolina 366.
- feeding behavior, winter, *Cervus elaphus* 2755.
- fetuses, effects on aggression, *Macaca nemestrina* 1213.
- flight activity, *Triatoma infestans* 1846.
- food attractants attractiveness, comparative studies, *Hylemyia* 11.
- food intake, physical activity, rats 3758.
- grooming, pair bond, social interactions, *Cacatu roseicapilla* 3620.
- habitat preferences, winter, *Falco sparverius* 472.
- habitat selection, spatial distribution, Ovis canadensis, Canada, Alberta 2865.
- home range, seasonal variations, *Sus scrofa*, USA, Tennessee 485.
- intracranial self-stimulation, hypothalamus (lateral), rats 2047.
- mating behavior, copulation, rats 3576.
- migrations, dispersal, age, *Canachites canadensis* 664.
- migrations, *Parulidae* 655.
- movements, home range, *Enhydra lutris* 4062.
- muricide, rats 2337.
- observational learning, models effects on, mice 599.
- odors response, territorial behavior, intraspecific relationships, *Meriones unguiculatus* 1175.
- olfactory bulb ablation effects on parental behavior, rats 2026.
- olfactory preferences, lemon odors, nesting behavior, rats 4117.
- open-field behavior, chickens, emotional behavior 4462.
- parental behavior, brood care, *Aequidens paraguayensis* 2523.
- parental behavior, evolution, *Vertebrata* 2515.

Sex differences, (continued)

- parental behavior, monogamy, energetics, *Rynchops niger* 2532
 pheromones, attractancy, chemotaxis, *Trichinella spiralis* 1528
 play, social behavior, androgens effects on, rats 3365
 reproductive behavior, parental behavior, pair bond, *Delichon urbica* 163
 sexual behavior, androgens effects on, rats 3320
 sexual behavior, polygamy, monogamy, *Ficedula hypoleuca* 1297
 sexual behavior, sex hormones, hamsters 3322
 social behavior, aggression, dominance, *Meriones himalayensis* 1368
 social behavior, amygdala lesions, juveniles, rats 886
 social behavior, social behavior, *Meriones unguiculatus* 2588
 social interaction, spatial distribution, protection, *Papio cynocephalus* 248
 social rank, *Odocoileus virginianus borealis* 95
 sodium requirements, mud feeding, *Pleurostomus* 2632
 song recognition, auditory communication, *Phylloscopus collybita* 3418
 spatial distribution, overwintering, *Phalaropus fulicarius*, *Calidris alba* 3812
 tool use, *Pan troglodytes* 2244
 vocalization behavior, *Macaca fuscata*, *Macaca silenus* 3441
 vocalization behavior, response, predators, social interactions, *Spermophilus beecheyi* 2312
 vocalization behavior, song, forebrain size, *Serinus canarius* 782
- Sex hormones,**
 aggressive behavior, parental behavior, infanticide suppression, mice 68
 aggressive behavior, testosterone, *Microtus pennsylvanicus* 69
 agonists, chronic exposure, effects on, sexual behavior, males, rats 1046
 androgen, sexual behavior, courtship, blood levels, odor, urination, *Rangifer tarandus* 190
 androgens, sexual behavior, aggressive behavior, activity patterns, males, cattle 181
 effects on aggressive behavior, females, mice 2334
 effects on grooming, rats 3319
 effects on homosexual behavior, females, *Larus occidentalis wymani* 2471
 effects on incubation behavior, *Coturnix coturnix japonica* 2536
 effects on mating behavior, gerbils 2495
 effects on sexual behavior, chickens 2482
 effects on sexual behavior, rats 3329
 effects on sexual behavior, social behavior, *Macaca mulatta* 2514
 effects on stereotyped behavior, rats 3325
 effects on yawning behavior, rats 3310
 estradiol, progesterone, serum levels, sexual behavior, ovary, ablation, rats 1052
 estragens, lesions, hypothalamus, feeding behavior, rats 900
 effect conditioning, memory, rats 2457
 females, effects on males sexual behavior, aggressive behavior, *Miopithecus talapoin* 3573
 implants, estradiol, sexual behavior, ovary, ablation, rats 1051
 infanticide, maternal behavior, offspring, rats 1351
 intracranial chemical stimulation, progesterone, limbic system, lordosis behavior, females, rats 1064
 lordosis, 2-hydroxyestradiol, 4-hydroxyestradiol, ovary, ablation, rats 1048
 mating behavior, aggressive behavior, gerbils 2496
 mating behavior, estrus, *Ailuropoda melanoleuca* 2502
 mating behavior, patterns, ablation, olfactory bulb, rats 1328
 nest building, nesting behavior, breeding success, *Streptopelia risoria* 3533
 plasma levels, fighting effects on, man 2185
 plasma levels, sexual behavior effects on, rats 3324
 reproductive behavior, egg laying, photoperiods, *Lagopus lagopus* 178
 role, behavior, reviews 3305
 serum levels, sexual behavior, gonadotrophins, androgens, males, hamsters 1041
 sexual behavior, age, monkeys 2511
 sexual behavior, castration, rats 2494
 sexual behavior, estrus cycle, donkeys 2508
 sexual behavior inhibition, males, *Rattus rattus* 1043
 sexual behavior inhibition, progesterone, estradiol, ovary, ablation, rats 1050
 sexual behavior ontogeny, sheep 2491
 sexual behavior, rats 3317
 sexual behavior, sex differences, hamsters 3322
 sexual behavior, testosterone, males, *Macaca mulatta* 1059
 sexual behavior, testosterone, plasma levels, luteinizing hormone, rats 189
 sexual receptivity, LH/RH analog, mating behavior, lordosis behavior, rats 1338
 stress, tonic immobility, age effects, behavioral genetics, *Sylvilagus floridanus* 788
 testosterone, binding, central nervous system, social interactions, aggression, dominance, mice 1045
 testosterone, progesterone, fear conditioning, extinction, emotional behavior, rats 1049
- Sex pheromone,**
 attractancy, chemical communication, *Zygaena* 2264
 attractancy, habituation, *Trichoplusia ni* 1147
 attraction, orientation, males, *Periplaneta americana* 2999
 bait traps, *Drosophila discalis*, USA, South Carolina 639
 biosynthesis, mating effects on, host plants aggregation, *Ursus parafuscus* 1149
 burrows, mating behavior, *Sphodros aberti*, *Sphodros rufipes* 2889
 capture-recapture studies, simulation models, *Ptella xylostella* 12
 chemical communication, (Z)-9-alkenols effects on inhibition, *Spodoptera litura* 29
 chemical communication, *Lygoecoris communis* 3390
 chemical communication, mating behavior, *Tiphidae* 2427
 chemical composition, females, *Pseudaletia unipuncta* 13
 chemical composition, *Malacosoma disstria* 17
 chemotaxis, flight, visual stimuli, *Grapholita molesta*, *Heliothis virescens* 3005
 components, attractancy, *Heliothis zea* 1151
 components, effects on males flight activity, *Trichoplusia ni* 1863
 components, effects on males flight, *Spodoptera litura* 25
 courtship, mating behavior, *Rhodops ocellatus ocellatus*, *Acheilognathus lanceolatus* 3532
 courtship role, biochemical analysis, diets, *Uthehis omatrix* 1152
 courtship, swarming, *Diplazon pectoratorius* 2410
 courtship, *Thaumipis sirtalis parietalis* 1293
 defense secretions, composition, mating behavior, *Taeniopoda eques* 2266
 effects on flight activity, *Trichoplusia ni* 14
 effects on mating behavior, *Bradysia impii* 113
 effects on mating behavior, *Glossina palpalis* 11
 effects on orientation, *Periplaneta americana* 2256
 effects on reproductive behavior, *Cochliomyia hominivorax* 16

Sex pheromone, (continued)

- effects on reproductive behavior, *Grapholita molesta* 9
 effects on, reproductive behavior, *Sitotroga cerealella* 121
 effects on sexual behavior, calling behavior, *Anticarsia gemmatilis* 1132
 exocrine glands secretion, sexual behavior, *Pentatomidae* 131
 factors affecting release, role, mating behavior, *Rhagoletis cerasi* 3392
 flight activity, males, *Choristoneura fumiferana* 1266
 habituation, response mating behavior, *Pentatomopoda gossypella* 21
 males orienting response, chemotaxis, *Periplaneta americana* 1843
 mating behavior, activity patterns, *Apanteles glomeratus* 1271
 mating behavior, flight activity, *Hyphantria cunea* 1284
 mutants, courtship inhibition, *Drosophila melanogaster* 142
 olfaction, sexual behavior, *Macaca mulatta* 3440
 olfactory perception, electroantennogram, *Spodoptera littoralis* 1903
 orientation, sexual behavior, females, *Plodia interpunctella* 2273
 pheromone emission, males response, *Brachymeria lasus* 1138
 pheromone emission, neurophysiology, *Lymantria dispar* 3138
 pheromone emission, periodicity, *Lymantria dispar* 2260
 pheromone traps, capture-recapture studies, simulation models, *Ptella xylostella* 12
 queens, extract, attractancy, workers, *Apis mellifera ligustica* 3389
 reproductive isolation, mate selection, feeding types, *Dichocrocis punctiferalis*, Japan 1256
 role, mating behavior, *Colletes cunicularius* 2402
 scent marking behavior, trail following behavior, *Pseudococcus calceolariae* 1137
 sexual behavior, crowding effects on, *Acanthoscelus* 2255
 sexual behavior, *Glossina pallidipes* 3385
 synthetic, mating behavior deterrents, cuticle liquids, *Glossina morsitans morsitans* 3516
Trichoplusia ni, pheromone traps, *Scirtes orbicularis* 1836
- Sex ratio,**
 effects on mate selection, *Larus argentatus* 162
 population structure, colonies, *Retulitermes flavipes* 85
 population structure, mate selection, *Rana sylvatica* 151
 sexual behavior, courtship, environmental factors, spawning, *Tautoga onitis* 156
- Sexual behavior,**
 aggressive behavior, conspecifics, sexual receptivity, males, mice 1197
 age effects on, hamsters 3554
 age effects on, *Macaca mulatta* 2513
 aggressive behavior, activity patterns, androgens, males, cattle 181
 aggressive behavior, males, females dominance, sex hormones effects on, *Myopithecus talapoin* 3573
 aging effects on, males, mice 3575
 arousal, age effects on, mice 3571
 behavior patterns, *Polyorchus acutrostris*, Brazil 2892
 breeding success, *Larus minutus* 164
 carbocil effects on, females, rats 2500
 carbocil effects on, rats 3146
 castration effects on, males, *Peromyscus maniculatus* 3323
 chronic exposure, sex hormones, agonists, effects on, males, rats 1046
 copulation, *Arctictus binturong* 187
 copulation, flight activity, *Eudicotia ubialis*, USA, Maryland 1265
 cortex ablation, age effects, rats 1956
 courtship, copulation, *Lamprologus caligaster* 152
 courtship, isolation, sympatric populations, dimorphism, *Aechmophorus occidentalis* 172
 courtship, mutants, *Drosophila* 2628
 courtship, sex hormones, blood levels, odor, urination, *Rangifer tarandus* 190
 courtship, sex ratio, environmental factors, spawning, *Tautoga onitis* 156
 depression, experience, rest, males, rats 2501
 development, hormones' aroma effects on, *Mesocricetus auratus* 186
 diel variations, *Amyelois transtella* 2413
 drug effects, β -endorphin, morphine, males, rats 943
 drug effects, estrogen, progesterone, rats 4380
 drug effects, males, rats 2149
 drug effects, methaqualone, social behavior, *Macaca mulatta* 1024
 early experience effects on, social environment, deprivation, chickens 2911
 effects on endocrine system, hormones, rats 4411
 effects on hormones, males, rats 2178
 effects on sex hormones, plasma levels, rats 3324
 electrophysiological recording methodology, telemetry, amygdala, hippocampus, cats 4211
 enzymatic activity, 5 β -reductase, testosterone, *Streptopelia risoria* 1312
 estrus effects on, females, *Mesocricetus auratus* 3321
 estrus cycle, drug effects, benzamide, *Rattus rattus* 954
 estrus cycle, sex hormones, donkeys 2508
 estrus, estradiol-17 β , progesterone, plasma levels, cattle 3326
 estrus, glucocorticoids effects on, pigs 3314
 exocrine glands secretion, *Pentatomidae* 131
 experience, social behavior, *Acomys cahirinus* 3559
 females, androgens effects on, intrauterine exposure, rats 3888
 females, orientation, sex pheromone, *Plodia interpunctella* 2273
 geographical variations, population studies, *Drosophila silvestris*, Hawaii 3517
 gorilla gorilla, books 4492
 hashish, acute toxicity, chronic effects, mice 941
 hormones, *Meriones unguiculatus* 4404
 hormones, therapy, progesterin 3340
 2-hydroxyestrone, 2-hydroxyestradiol effects on, rats 4409
 inhibition, progesterone, estradiol, ovary, ablation, rats 1050
 inhibition, sex hormones, males, *Rattus rattus* 1043
 interspecific relationships, *Megaryssia* 126
 intraspecific hybridization, *Larus delawarensis*, *Larus pipixcan*, Canada, Alberta 2463
 life history, *Copris lunaris* 1289
 lordosis behavior, androgens effects on, rats 3328
 lordosis behavior, GTP effects on, rats 4176
 lordosis behavior, hormones, adrenal gland ablation, rats, mice 2177
 lordosis behavior, olfactory stimuli, males, rats 3555
 lordosis, sex hormones, 2-hydroxyestradiol, 4-hydroxyestradiol, ovary, ablation, rats 1048
 lubiberin effects on, males, rats 3327
 males, carbon dioxide effects on, *Musca domestica* 107
 mate selection, evolution, females, mathematical models 2872
 mate selection, males reproductive strategy, *Marmota caligata* 1331
 maternal behavior, aggression, infanticide, sociological aspects, *Macaca*

Sexual behavior, (continued)

- fascicularis 194.
 - mathematical models, populations, *Chaulionathus pennsylvanicus* 140.
 - mating behavior, communication, *Oenante isabellina* 3544.
 - mating behavior, *Dacus oleae* 2415.
 - mating behavior, reproductive strategy, rats 2506.
 - mating behavior, *Romerolagus diazi* 2492.
 - mating effects on female locomotion, *Teleogryllus commodus* 1292.
 - migrations, *Eschrichtia robustus*, USA, California Coast 2489.
 - monogamy, pair bond, display, *Trichoglossus* 1156.
 - mother-offspring interactions, social interactions, groups, *Macaca fuscata* 3574.
 - motivation, drug effects, methadone, males, *Mesocricetus auratus* 953.
 - olfaction, biocoacustics, sexual maturity, *Pseudohylesinus nebulosus* 1270.
 - olfaction, sex pheromone, *Macaca mulatta* 3440.
 - ontogeny, fluoxymesterone effects on, hamsters 2182.
 - ontogeny, sex hormones, sheep 2491.
 - oviposition, diel variations, photoperiods, circadian rhythms, *Culex quinquefasciatus* 1237.
 - oviposition, edge effect, *Anthocharis cardamines* 2392.
 - oviposition, *Philia picta*, Brazil, Sao Paulo 2406.
 - pergolide, bromocriptine effects on, rats 4319.
 - pheromones response, bioassays, males, *Dioryctria amatella* 115.
 - pineal body, daylength, photoperiods, *Mesocricetus auratus* 184.
 - polygamy, monogamy, sex differences, *Ficedula hypoleuca* 1297.
 - pregnancy effects on, rats 2493.
 - prepubertal, prenatal experience effects on, rats 1054.
 - reproductive strategy, ontogeny, ovary development, *Poephila guttata* 165.
 - responsivity, opiates antagonists effects on, hamsters 4344.
 - scent marking behavior, social behavior, *Calithrix jacchus* 2512.
 - seasonal variations, dominance, males, *Macaca fuscata* 193.
 - sebum lesions, intraspecific relationships, aggressive behavior, males, hamsters 883.
 - sex differences, androgens effects on, rats 3320.
 - sex hormones, age, monkeys 2511.
 - sex hormones, castration, rats 2494.
 - sex hormones effects on, chickens 2482.
 - sex hormones effects on, rats 3329.
 - sex hormones, implants, estradiol, ovary, ablation, rats 1051.
 - sex hormones injection, serum levels, males, hamsters 1041.
 - sex hormones, rats 3317.
 - sex hormones, serum levels, ovary, ablation, rats 1052.
 - sex hormones, sex differences, hamsters 3322.
 - sex hormones, testosterone, males, *Macaca mulatta* 1059.
 - sex hormones, testosterone, plasma levels, luteinizing hormone, rats 189.
 - sex pheromone attractancy, crowding effects on, *Acanthoscelides* 2255.
 - sex pheromone effects on, *Anticarsia gemmatilis* 1132.
 - sex pheromone, *Glossina pallidipes* 3385.
 - sex reversal, color, social behavior, females, *Anthias squamipinnis* 337.
 - sexual receptivity, endocrinology, aging, *Macaca radiata* 4416.
 - social behavior, aggressive behavior, age effects, *Macaca radiata* 192.
 - social behavior, behavioral genetics, dominance, males, cattle 182.
 - social behavior, genetic factors, *Larus* 2470.
 - social behavior, sex hormones effects on, *Macaca mulatta* 2514.
 - social environment effects on, arousal, *Papio ursinus* 1340.
 - social environment effects on, isolation, males, rats 3561.
 - social environment, *Rhombomys opimus* 3556.
 - social environment, social interactions, social organization, *Macaca fascicularis* 3644.
 - social interactions, modulation, hormones, males 4396.
 - social organization, *Leptothorax provancheri* 1259.
 - social organization, territorial behavior, mice 2585.
 - sound production, testosterone effects on, *Coturnix japonica* 4401.
 - spawning behavior, forebrain lesions effects on, males, *Carassius auratus* 4219.
 - tactile discrimination, interspecific relationships, *Notonecta alauca* 105.
 - testosterone effects on, females, rats 4412.
 - testosterone effects on, juveniles, chickens 3309.
 - testosterone implants, hypohalams, females, hamsters 1053.
- Sexual dimorphism,**
- aggregation behavior, *Tribolium castaneum* 215.
 - body size, social behavior, *Macropus robustus*, Australia 245.
 - chelicerae, mating behavior, breeding success, *Macrobrachium nipponense* 2385.
 - electric organs, communication, *Pollimyrus isidori*, social behavior 2286.
 - feeding behavior, *Accipiter striatus* 2530.
 - social behavior, attraction, conspecifics, mobility, rats 2578.
 - risk function, sexual selection, dominance, males, *Monodon monoceros* 2487.
- Sexual maturity,**
- growth, social environment, *Rhombomys opimus* 3556.
 - olfaction, biocoacustics, sexual behavior, *Pseudohylesinus nebulosus* 1270.
 - puberty, reproductive behavior, hormones, *Saimiri* 195.
- Sexual receptivity,**
- activity, sexual behavior, aggressive behavior, conspecifics, mice, sexual behavior 1197.
 - copulation, vocalization, rats 1181.
 - estradiol, lordosis behavior activation, rats 1335.
 - estrus cycle, dopamine role, rats 2498.
 - females, prostaglandins effects on, *Anolis carolinensis* 1034.
 - hypothalamus (ventromedial), midbrain lesions, estrogens, rats 1334.
 - mating, oviposition, feeding, *Amblyomma americanum* 3518.
 - reproductive behavior, pheromones, *Thamnophis sirtalis parietalis* 2444.
 - seasonal variations, *Macaca mulatta* 3580.
 - sex hormones, LH-RH analog, mating behavior, lordosis behavior, rats 1338.
 - sexual behavior, endocrinology, aging, *Macaca radiata* 4416.
 - vagina stimulation effects on, rats 857.
- Sexual reproduction,**
- annual cycles, rhythms, photoperiod, temperature, *Eutamias amoenus*, *Eutamias* 3102.
 - burrowing behavior, food preferences, seasonal variations, environmental factors, *Thomomys botae* 489.
 - chemoreception, *Blepharisma*, Somali Dem. Rep. 1235.
 - circannual rhythms, circadian rhythms, *Helix aspersa* 748.
 - display, social behavior, *Gelochelidon nilotica* 2296.
 - Eutacus auratus*, USSR, Zaunguzskiy Karakum 3822.
 - fertility, diapause, males, *Anthonomus grandis grandis* 1269.
 - flight activity, mating, oviposition, *Neotectopysche albida*, USA, Indiana 1282.
 - gonads, annual cycles, photoperiods, *Ploceus philippinus* 169.
 - Jabiru mycteria, 2473.

Sexual reproduction, (continued)

- marking behavior, social interactions, *Rhombomys opimus* 185.
 - Marmota menzibei*, USSR 3823.
 - mating behavior, seasonal variations, *Brachytripes megacephalus*, Sicily 2782.
 - mating behavior, spawning, *Centropyge* 2455.
 - nesting behavior, burrowing behavior, *Geositta peruviana*, Peru 3535.
 - nesting behavior, egg production, *Philaete canadica*, USSR 3537.
 - Pterochirus articulatus*, *Gehyra oceanica*, *Gehyra mutilata*, *Lepidodactylus lugubris*, *Hemidactylus frenatus*, Guam 2442.
 - population density, fecundity, *Citellus pygmaeus* 3474.
 - reproductive behavior, *Loligo pealei* 2388.
 - role, olfaction, *Vertebrata* 1913.
 - sexual behavior, nesting behavior, *Copris lunaris* 1289.
 - social hierarchy, pleometrotic foundations, haplometrotic foundations, *Polistes gallicus* 2372.
 - vocalization behavior, ultrasound, hormones, *Rodentia* 4403.
- Sexual selection,**
- mate selection, aggressive behavior, body size, *Brenatus anchorage* 2421.
 - mating behavior, body size, breeding success, *Bufo americanus* 2443.
 - mating behavior, breeding colonies, *Actitis macularia* 3536.
 - mating behavior, *Phidippus johnsoni* 269.
 - Thermosphera thermophilum 2379.
 - tusk function, sexual dimorphism, dominance, males, *Monodon monoceros* 2487.
- Shape,**
- visual discrimination, sheep, cattle 1893.
- Sheep,**
- circadian rhythms, photo period, physical activity, feeding, drinking 763.
 - domestication, husbandry, *Djalokne sheep* 3349.
 - ethology, livestock, handling, environmental factors 1101.
 - feeding behavior, activity patterns, coastal environments 2215.
 - feeding behavior, drinking behavior, heart rate, calcium, magnesium effects on 799.
 - feeding behavior, food intake, inhibition, cholecystokinin, peptides 394.
 - feeding behavior, food intake, water intake, digestion, environmental factors, climate 387.
 - feeding behavior, grazing, environmental effects 2218.
 - feeding behavior, pasture vegetation patterns effects on 383.
 - food intake, radioactive labelling, food preferences, early experience 1512.
 - grazing, grassland, climate 410.
 - grazing, rotation, pasture, irrigated areas, stocking rates, body weight 414.
 - intracranial chemical stimulation, cholecystokinin peptides effects on satiety 2066.
 - lactation, water intake, water resources, snow, adaptations 407.
 - maternal behavior, ranging behavior, reproduction, survival 4457.
 - maternal behavior, tranquilizers, offspring 2211.
 - mating behavior, males, breeding, reviews 4449.
 - offspring odors, recognition, rearing 4451.
 - olfactory bulb ablation effects on grazing, diets 4223.
 - operant conditioning, light intensity preferences, light, dark 1102.
 - opiates, agonists, antagonists, effects on feeding behavior 3753.
 - parental behavior, twins, mortality 3351.
 - prenatal experience, stress, effects on social behavior 1620.
 - rearing, social environment, effects on open-field behavior, juveniles 3348.
 - rhythms, motor activity, rest-activity cycle, lutropin 3318.
 - sexual behavior ontogeny, sex hormones 2491.
 - sheltering behavior, environmental effects 2221.
 - ventricle (third) lesions, effects on water intake 4232.
 - visual discrimination, shape 1893.
- Shells,**
- defense mechanisms, *Trochidae* 432.
 - monogamy effects on habitat behavior, *Paguridae* 424.
 - movements, salinity effects, *Scrobicularia plana* 423.
- Sheltering behavior,**
- aggregation behavior, marine environment, *littorans*, *Pisces* 2823.
 - anti-predator behavior, night, *Scarus taeniopterus*, West Indies, Barbados Coast 3806.
 - comb construction, *Hymenoptera* 452.
 - environmental effects, sheep 2221.
 - habitat utilization, *Canis lupus*, USA, Minnesota, Superior National Forest 3821.
 - habitat utilization, *Octopus bimaculatus*, USA, California Coast 2774.
 - huddling, vocalization behavior, storms, *Pluvialis apricaria* 2846.
 - pollution effects, drilling mud, *Homarus americanus* 3767.
 - Rallus aquaticus*, British Isles, Aberdeen 3862.
 - substrate preferences, juveniles, *Homarus americanus* 2778.
 - summer, stress, metabolic rate, *Setonix brachyurus* 2857.
- Shock,**
- aggressive behavior, cyproterone acetate effects on, rats 2140.
 - aggressive behavior, inhibition, intracranial chemical stimulation, 5-hydroxytryptamine, mice 847.
 - aggressive behavior, phenylcyclidine effects on, rats 2102.
 - analgesia, mediation, nerves, hormones, rats 4160.
 - aversion learning, associative learning, avoidance behavior, cues, light, saccharin, rats 1749.
 - aversion learning, CS freezing, rats 566.
 - avoidance behavior, burying behavior, defensive behavior, rats 1746.
 - avoidance behavior, defensive behavior, burying behavior, piling behavior, rats, hamsters 1733.
 - avoidance behavior, extinction, response competition, rats 3898.
 - avoidance behavior, neurons physiology, *Carcinus maenas* 815.
 - avoidance behavior, operant conditioning, reinforcement, rats 1680.
 - avoidance learning, activity patterns, rats 3972.
 - avoidance learning, discrimination learning, cues, color, reversal learning, *Carassius auratus* 2948.
 - avoidance learning, locomotor activity, *Carcinus maenas* 559.
 - avoidance learning, operant conditioning, passive avoidance, fighting, *Bufo* *Ranidae* 1718.
 - blocking, classical conditioning, rats 3937.
 - classical conditioning, analgesia, opiate, dorsolateral fimbria, rats 4212.
 - classical conditioning stimuli, heart rate, rats 4119.
 - conditioned inhibition, fear, rats 3980.
 - conditioned inhibition, US preexposure phenomenon, associative learning 1638.
 - conditioned response, burrowing behavior, defensive behavior, preexposure, rats 3977.
 - conditioned suppression, apomorphine, diazepam effects on, rats 4392.
 - defensive behavior, burying, avoidance behavior, preexposure, rats 1728.
 - effects on β -endorphin levels, rats 1997.

Shock, (continued)

- effects on aggression, rats 70.
 effects on aggressive behavior attack mice 2338
 effects on aggressive behavior, defensive behavior, mice 2335.
 effects on aggressive behavior social behavior rats 3457.
 effects on emotional behavior, dopamine, norendrine, rats, 1020.
 effects on intracranial self-stimulation, rats 4259.
 effects on plasma corticosterone, catecholamines, rats 2236.
 effects on neurophysiology, immobilization 2006.
 electrical stimulation, drug effects, tonic immobility, convulsions, catalepsy, catatonas, rats 739.
 electronic equipment, electrical stimulation 1069.
 escape behavior, chlorpromazine effects on, rats 2120
 escape behavior, fear conditioning, rats 2927.
 escape behavior, polyurethane decomposition effects on, rats 3250.
 escape learning, analgesia, long-term, rats 4121.
 escape learning, proactive interference, avoidance behavior, learned inactivity, rats 1735.
 fear conditioning, effects on adrenaline plasma levels, monkeys 2231.
 fighting, drugs, benzodiazepine, mice 77.
 fixed interval schedule, operant response, escape behavior, rats 1740.
 foot, rats, histamine effects on, rats 988.
 foot shock, jumping, neurophysiology, clonidine, apomorphine, phenoxybenzamine, p-monoze, rats 852.
 glucose metabolism, brain, corticosterone, grooming, mice 4213.
 habituation, extinction, rats 3897.
 inescapable shock, interference, appetitive conditioning, activity, learned helplessness, laboratory animals 2246.
 learned helplessness, nortryptiline effects on, mice 4288.
 learned helplessness, runway learning, aversion, appetitive conditioning, mice 454.
 operant conditioning, suppression, acceleration 1640.
 operant response, schedule-induced behavior, drug effects, diazepam, rats 2126.
 preference-for-signaled-shock, avoidance learning, rats 3978.
 reinforcement, avoidance behavior, temporal perception, rats 1741.
 reinforcement schedule preferences, aversion learning, rats 3967.
 reinforcement schedules, interstimulus interval, rats 1761.
 reinforcement schedules, taste aversion learning 1715.
 response, free operant avoidance, rats 585.
 responsiveness, β -endormin effects on, rats 2000.
 schedule, intensity, effects on avoidance learning, rats 583.
 sensitivity, discrimination learning, morphine effects on, rats 989.
 signals, preferences, aversion learning, classical conditioning 357.
 signals, preferences, avoidance learning 558.
 signals, preferences, reversal learning, rats 1802.
 stress, analgesia, rats 4477.
 stress, effects on plasma levels, adrenaline, rats 3366.
 stress, grooming, rats 2238.
 tactile stimuli, handling effects on reactivity, rats 3086.
 taste aversion learning, reinforcement schedules 1725.
 taste, sound, associative learning, avoidance learning, cues, rats 1750.
 UCS, fear conditioning, adaptations, rats 569.
Short term memory,
 avoidance learning, pretraining, testosterone, juveniles, chickens 1722.
 cortex (prefrontal), unit activity, *Macaca mulatta* 3180.
 fornix lesions, amnesia, monkeys 619.
 inhibition, protein biosynthesis, avoidance learning, mice 1828.
 matching-to-sample, auditory discrimination learning, *Turtopus truncatus* 3996.
 matching-to-sample performance, internal interval effects on, pigeons 607.
 matching-to-sample, pigeons 2987.
 matching-to-sample, retention intervals, pigeons 3992.
 maze learning, internal interval effects on, rats 612.
 operant conditioning, multiple schedule, matching-to-sample, pigeons 1812.
 retention, stimulus control, pigeons 608.
 role, d-amphetamine 1807.
 serial learning, operant response, pigeons 3912.
 stimulus control, maze learning, rats 4027.
 temporal perception, variable interval schedule, matching-to-sample, pigeons 1813.
Siblings,
 competition, parental behavior, hatching, *Aechmophorus occidentalis* 2526.
 feeding behavior, food intake, cooperation *Acomys cahirinus* 400.
 recognition, huddling, *Acomys cahirinus* 1373.
 recognition, social behavior, *Peromyscus leucopus* 3634.
 social hierarchy, food availability, survival, *Haematopus ostralegus* 2375.
 social structure, social behavior, *Macaca mulatta* 3642.
Side effects,
 fluphenazine decanoate, chewing, displacement activity, rats 968.
 leptazol, acoustic startle response, cats 740.
Sigmond bispidus,
 food organisms, biomass, food preferences, feeding behavior *Tyto alba* 374.
Sign-tracking,
 acquisition, extinction, rats 3936.
Sign-tracking behavior,
 hunger conditioned response, classical conditioning, rats 2943.
Signals,
 chain schedule, preferences, reinforcement, operant response, choice learning, pigeons 1671.
 chemoreceptors, effects on feeding behavior, *Phormia regina* 1902.
 conditioned suppression, licking behavior, rats 1687.
 delay, avoidance behavior, extinction, response prevention, rats 1738.
 duration, reinforcement, preferences, rats 3946.
 effects on response, free operant avoidance, rats 585.
 preference-for-signaled-shock, avoidance learning, rats 3978.
 reinforcement, effects on cortex waves, *Saimeri sciura* 878.
 reinforcement, food, discrimination learning, autoshaping, pigeons 1655.
 reinforcement schedules, autoshaping, pigeons 2930.
 shock, preferences, avoidance learning 558.
Siphophora coquilletti,
 oviposition, webs spinning 4487.
Silk,
 cocoons construction, *Hyalophora cecropia* 3356.
 repellents, interspecific relationships, *Dictyna*, Mallos 1361.
 role, mating behavior, males, *Carthosus xanthogramma* 2395.
 webs, resting behavior, *Insecta* 2807.

- Simias concolor,**
 social organization, population density, Sumatra, Siberut 1 3640.
Simulidae,
 life cycle, development, population dynamics, chemotaxis, hosts, *Mammalia* 645.
Simulium ornatum,
 diet, effects on flight activity 3039.
Simulium venustum,
 feeding behavior, chemical stimuli, hematophagy 2649.
Simultaneous conditioning,
 chain schedule, reinforcement schedules, serial learning, pigeons 1669.
Sinigrin,
 effects on feeding behavior, *Schistocerca gregaria* 306.
Siphonophore,
 feeding behavior, diel variations, Sargasso Sea, USA, Washington Coast 278.
Sipylodes sipylus,
 defensive behavior, activity patterns, coloration, sound production 2319.
Sirenia,
 feeding behavior, diets 386.
Site location,
 Artemesia, vertical distribution, nesting behavior, *Oreoscoptes montanus*,
Amphispiza belli, *Spizella breweri* 1305.
 webs, foraging behavior, strategy, Araneidae, *Lonnyphidae* 2610.
Site selection,
 behavior, spawning, littoral zone, mortality, air, exposure, *Fucus distichus*,
Clintococcus aculeus, Canada, British Columbia Coast 155.
 dens, habitat utilization, geographical distribution, *Vulpes vulpes*, Germany,
 Fed. Rep., Saarbrücken 3825.
 feeding, olfactory perception, ontogeny, juveniles, rats 1625.
 nesting behavior, colonies, flight activity, *Vespa consobrina* 3610.
 nesting behavior, environmental factors, comparative studies, *Buteo platypterus*,
Buteo lineatus, *Buteo jamaicensis*, *Accipiter cooperii* USA, Appalachian Mts. 474.
 nesting behavior, social interactions, *Bembis pruinosa* 3791.
 nests, environmental factors, solar radiation, *Vireo gilvus*, USA, Arizona 2472.
 nests, *Pandion haliaetus*, USA, Wyoming, Yellowstone Park 2844.
 oviposition, *Drosophila melanogaster* 120.
 oviposition, host plants, *Ortus insidiosus*, *Nabis roseipennis*, *Nabis americanus* 3520.
 roosting behavior, aggregation behavior, seasonal variations, *Sturnus vulgaris* 2572.
Sitona hispidulus,
 hosts, olfactory stimuli, host searching behavior, parasitoids, *Patasson lameerei* 3496.
Sitotroga cerealella,
 sex pheromone effects on reproductive behavior 121.
Sitta carolinensis,
 agonistic behavior, display 2328.
 feeding behavior, substrate preferences, environmental factors 367.
Sitta europaea,
 hoarding behavior, aggression, territorial behavior 2701.
Sivapitecus,
 paleoecology, diets, effects on dental enamel morphology 389.
Size,
 brain, effects on demography, habitat preferences, life span, *Didelphidae* 790.
 effects on homing behavior, *Oligococcus maculosus* 465.
 effects on territorial behavior, mating behavior, *Scaphophaga stercoraria* 127.
 posture, thermoregulatory behavior, temperature effects, pigs 495.
Size distribution,
 communication systems evolution effects on, *Halictidae*, *Apidae* 20.
 food organisms, food preferences, *Pygocelis*, Antarctica, King George I. 355.
Skeletomema costatum,
 attractants, chemotaxis, *Flavobacterium*, *Pseudomonas* 2997.
Skln,
 mechanoreceptors, tactile perception, man 4127.
 nerve transmission, cortex, locomotion, arousal 812.
 tactile perception, distance, location 4096.
 temperature stimuli, electronic equipment, methodology 1073.
Slavery,
 adaptiveness, fitness, *Formicidae* 506.
Sleep,
 bibliographies 3108.
 circadian rhythms, tryptophan deprivation, rats 3126.
 cognitive ability, reinforcement, learning behavior 768.
 deprivation-circadian rhythms, neurotransmitters, binding, forebrain, rats 1942.
 diel variations, activity patterns, social behavior, *Alouatta seniculus*,
 Venezuela 3866.
 drug effects, photoperiod, rats 4145.
 early experience effects on, noise, rats 3878.
 EEG, cerebellum, arousal, cats 2005.
 EEG, development, infants 777.
 EKG, EEG, swimming, *Phocoena phocoena* 3109.
 electrical stimulation, hypothalamus, effects on, respiration, cats 921.
 ethanol effects on, mice 959.
 hibernation, thermoregulation adaptation 766.
 hormone release, drug effects, fluorotryptophan, *Rattus rattus* 2081.
 inducers, hexobarbital, lysine metabolites effects on, rats 3125.
 inducers, prostaglandins, brain, chickens 925.
 locomotor activity circadian rhythms, DSP effects on, rats 1962.
 metabolism, activity patterns, energy conservation 765.
 methadone heroin, intrauterine exposure, effects on, laboratory animals 4276.
 midbrain, electrophysiological recording, cats 3111.
 neurophysiology, brain, EEG, air ionization, rats 863.
 regulation, drugs, p-chlorophenylalanine, sleep deprivation, sleep (REM), rats 4144.
Sleep and wakefulness,
 behavioral genetics, strains, mice 4142.
 denervation, carotid sinus nerve, chemoreception, gases, hypoxia, rats 4147.
 electrophysiological recording, 5-hydroxytryptamine neurons, globus pallidus, cats 4143.
 β -endorphin effects on, cats 3113.
 6-fluorotryptophan effects on, rats 3269.
 neurons responsiveness, development, rats 775.
 nucleotides levels, brain, rats 770.
 olfactory perception, olfactory bulb lesions, rats 4222.
 rhythms, locomotor activity, rats 3112.
 sleep (paradoxical), atonia, exploratory behavior, cats 3114.
 sleep (REM), drug effects, bromocriptine, dihydroergotamine, rats 980.

- Sleep (paradoxical),**
 atonia, exploratory behavior, cats 3114.
 duration, effects on intracranial self-stimulation, rats 4256.
 deprivation, memory, methodology 767.
 endogenous stimuli, genetics, models 772.
 hippocampus EEG, rats 1947.
 lateral geniculate nucleus, neurons, depolarization, cats 1992.
 propionolol, neurons, chemoreceptors, blocking, rats 771.
 rearing environmental conditions effects on, rats 776.
 thermoregulatory behavior, cats 4146.
 tongue, nose hair movements, anophthalmic mice 1948.
- Sleep (REM),**
 deprivation, aggressive behavior, drug effects, apomorphine, rats 1005.
 deprivation, dominance, females, mice 1944.
 deprivation, effects on aggression, drug effects, rats 1946.
 deprivation, effects on dopamine sensitivity, depression, rats 774.
 deprivation, effects on swimming behavior, rats 1945.
 deprivation, emotional behavior, females, rats 2222.
 deprivation, meal feeding, photoperiod, rats 769.
 drugs, *p*-chlorophenylalanine, sleep deprivation, effects on, rats 4144.
 EEG, stress, rats 3110.
 quipazine, cats 3303.
 sleep and wakefulness, drug effects, bromocriptine, dihydroergotamine, rats 980.
- Small intestine,**
 role, satiety, food intake, *Macaca mulatta* 1970.
- Seow,**
 water resources, water intake, adaptations, sheep lactation 407.
- Social behavior,**
 activity patterns, aggregation behavior, water availability effects on,
Hydrochoerus hydrochaeris 2580.
 activity patterns, *Cyprinodon salinus* 2569.
 activity patterns, feeding, habitat utilization, Presbytis pileatus, Bangladesh,
 Madhupur Forest 2589.
 activity patterns, time allocation, groups, *Macaca fuscata* 247.
 adrenal cortex activity, cattle 1372.
 aggression behavior, phonotaxis, *Gryllus integer*, *Gryllus veletis*, *Teleogryllus*
sinuatus 3463.
 aggression, sex differences, dominance, *Meriones hurianae* 1368.
 aggressive behavior, dominance, rats 3456.
 aggressive behavior, exploratory behavior, *Microtus breweri* 2330.
 aggressive behavior, *Hemigrapsus nudus*, USA, Washington, San Juan I. 1360.
 aggressive behavior, aggression, *Saimiri* 3330.
 aggressive behavior, kinship, mice 3632.
 aggressive behavior, lesions, amygdala, 5-hydroxytryptamine, rats 895.
 aggressive behavior, ontogeny, chickens 3444.
 aggressive behavior, sex differences, *Macaca mulatta* 2342.
 aggressive behavior, sexual behavior, age effects, *Macaca radiata* 192.
 aggressive behavior, shock effects on, rats 3457.
 aggressive behavior, social hierarchy, *Cercopithecus aethiops* 1387.
 agonistic behavior, aggression, domestication, *Rattus norvegicus* 1203.
 agonistic behavior, antagonism, dominance, strains, chickens 2206.
 alarm behavior, defensive behavior, communication, nests, *Synoceba surinama* 2254.
 altruism, aggressive behavior, colonies, *Larus* 2575.
 altruism, reviews, *Delphinidae* 2581.
 amygdala lesions, juveniles, rats 886.
 animals, man effects on, analysis methodology 1082.
 anti-predator behavior, *Schizolachnus pineti* 3782.
 apiculture, literature reviews, *Apis florea* 222.
 association, interspecific relationships, *Primates* 2594.
 attack, septum lesions, rats 3199.
 behavioral genetics, evolution, selection 2873.
 breeding, evolution, *Aves*, *Mammalia* 2556.
 breeding, evolution, environmental conditions 2555.
 castes, colonial characteristics, *Lasioslossum zephyrum* 2562.
 castes, colonial characteristics, *Lasioslossum zephyrum* 2567.
 castes, queens pheromones effects on, *Apis mellifera* 1363.
 chemical communication, pheromones, *Periplaneta americana* 2269.
 colonial characteristics, genetic relationship, measuring techniques, *Insecta*
 3838.
 colonial characteristics, interspecific relationships, raiding behavior,
Chalepoxenus muellerianus 2566.
 colonial characteristics, queens, workers, *Apis mellifera* 1217.
 colonies, adaptiveness, *Cynomys leucurus*, *Cynomys ludovicianus* 1371.
 communication, ESB, *Saimiri* 2060.
 competition, food availability, *Ictalurus nebulosus* 2373.
 competitive behavior, conferences, *Insecta* 2248.
 conspecific odors, recognition, chemical communication, *Tamias striatus* 3425.
 conspecifics, effects on fear, rats 2230.
 copulation, nesting behavior, vocalization behavior, *Himantopus himantopus* 2898.
 defense mechanisms, agonistic behavior, *Apicotermitinae* 2318.
 development, chemical stimuli effects on, *saliva*, *Meriones unguiculatus* 242.
 diet variations, activity patterns, sleep, feeding, *Alouatta seniculus*, *Venezuela*
 3866.
 dimethylmercury effects on, nervous system toxicity, rats 4328.
 dimorphism, raptors, *Aves* 3619.
 discrimination, conditioning, vocalization behavior, lesions, cortex (cingulate),
Macaca mulatta 804.
 display, *Bonasa umbellus* 2577.
 display, conspecifics, interspecific relationships, *Phrynosoma platyrhinos*,
Phrynosoma cornutum 3612.
 display, sexual reproduction, *Gelochelidon nilotica* 2296.
 display, smiling, man 1383.
 domestic animals, agricultural practices 4444.
 dominance, aggressive behavior, *Chaetodontidae*, *Acanthuridae* 3616.
 dominance, castes, colonies, *Bombus terrestris* 2371.
 dominance, females, *Heterotopia multispinosa* 1364.
 dominance, leaders, grazing, cattle 1376.
 dominance, olfactory stimuli role, *Nauphoeta cinerea* 3482.
 dominance, *Pluvialis squatarola*, *Pluvialis dominica*, *Arenaria interpres*, Canada,
 Manitoba 2696.
 drug effects, *B*-endorphin, morphine, males, rats 943.
 drug effects, methamphetamine, sexual behavior, *Macaca mulatta* 1024.
 early experience effects on, *Acomys cahirinus* 3628.
 early experience effects on, social environment, deprivation, chickens 2911.
 ecological distribution, feeding, movements, seasonal variations, *Corvidae* 2894.
 electric organs, communication, sexual dimorphism, *Pollimyrus isidori* 2286.
- Social behavior, (continued)**
 energy utilization, correlation, physiology, *Ovis canadensis canadensis* 3627.
 ethology, conferences 4500.
 evolution, parental behavior, reproductive behavior, seasonal variations,
Calidridae 507.
 evolution, population genetics, mathematical models 3839.
 feeding behavior, larvae, *Engraulis mordax*, *Trachurus symmetricus* 2833.
 feeding behavior, locomotor activity, *Aotus trivirgatus* 3869.
 feeding behavior, ontogeny, *Cercopithecus*, *Spathocercus venaticus* 2917.
 food availability, resource partitioning, *Mus musculus* 3625.
 forage, food availability, *Macaca radiata* 2590.
 foraging behavior, nests, *Dorylinae* 2890.
 foraging behavior, *Staphylinidae* 2563.
 foraging behavior, *Sterna sandvicensis* 2706.
 foraging behavior, territory, *Myrmecocystus mimicus* 1418.
 grooming activity patterns, *Melospiza undulata* 3618.
 grooming, diurnal variations, *Macaca fuscata* 3648.
 grooming function, *Cercopithecus albigena*, *Colobus badius*, *Cercopithecus mitis* 1388.
 groups, social rank, aggressive behavior, *Capra waliae* 2582.
 home range, territorial behavior, energetics, *Anolis* 2348.
 hormones, metabolism, reviews 4398.
 huddling, preferences, sex, juveniles, rats, *Rattus norvegicus* 1378.
 5-hydroxytryptamine, triptophan, biochemistry, blood, *Cercopithecus aethiops*
sabaeus 807.
 hyperphagia, migrations, *Branta canadensis*, USA, Minnesota 2571.
 hypoxia, external stimuli, rats 1572.
 imprinting, attachment, queens, colonies, *Vespa orientalis* 216.
 intraspecific relationships, reproductive behavior, selection, dispersal,
Apellocoma conulescens insularis 230.
 intraspecific relationships, territorial behavior, aggression, *Muscicapa*
nigrona, India 231.
 isolation effects on, *Macaca* 1629.
 isolation, effects on, mother-offspring interactions, *Macaca nemestrina* 1385.
 isolation effects on, rats 1617.
 isolation effects on, rhesus monkeys 1379.
 learning behavior, feeding behavior, *Papio ursinus*, *Cercopithecus aethiops* 1382.
 learning behavior, mother-offspring interactions, *Macaca mulatta* 1356.
 licking behavior, conspecifics, pheromones, *Sceloporus occidentalis biserialis*
 3614.
 lithium effects on, memory, *Pisces* 3222.
Mandillus sphinx 3641.
 mating behavior, copulation, competition, rats 3578.
 mating behavior, genetics, *Apis mellifera*, *Melipona quadrifasciata* 223.
 mating behavior, *Halichoeres maculipinna*, *Halichoeres garnoti*, Panama Coast 341.
 mating behavior, spawning behavior, *Oncorhynchus gorbuscha* 3531.
 methodology, equipment, mice 4435.
 mimicry, convergence, *Rhinophrynus rostellatus* 3764.
 mobility, attraction, conspecifics, sexual dimorphism, rats 2578.
 monogamy, pair bond, display, *Trichoglossus* 1156.
 mother-offspring interactions, body size, sex, sexual dimorphism, *Macropus*
robustus, Australia 245.
 mother-offspring interactions, dominance, play, social interactions, *Cervus*
elaphus 1369.
 mother-offspring interactions effects on, *Microtus ochrogaster*, *Microtus*
pennsylvanicus 3568.
 nest building, colonies, *Reticulitermes lucifugus* 2557.
 nesting behavior, colonial characteristics, *Xylocopa pubescens* 2568.
 ontogeny, *Microtus ochrogaster*, *Microtus pennsylvanicus* 3637.
 ontogeny, mother-offspring interactions, *Gorilla gorilla gorilla* 1355.
 ontogeny, mother-offspring interactions, *Macaca mulatta* 2593.
 ontogeny, rats 3877.
 ontogeny, rearing, handling, *Canis lupus* 2916.
 ontogeny, *Sciuridae* 520.
 ontogeny, social environment, isolation, *Mesocricetus auratus* 3636.
 ontogeny, social rank, mother-offspring interactions, *Macaca mulatta* 2592.
 ontogeny, *Tyto alba* 2890.
 open-field behavior, anti-predator behavior, escape behavior, rats, mice 3837.
 Pan troglodytes, Guinea, Bossou 3638.
 parental behavior, dispersal, juveniles, environmental effects, habitat, *Marmota*
flaviventris 239.
 pheromones, sensitivity, bioassays, *Solenopsis invicta* 27.
 piribedil effects on, rats 939.
 play, androgens effects on, rats 3365.
 play, environmental effects, helicopters, juveniles, *Rangifer tarandus pearyi*
 241.
 play fighting, *Gymnorhinus tibicen* 4471.
 play, *Larus canus* 4470.
 play, mother-offspring interactions, nervous system development, *Macaca mulatta*
 1114.
 play, mother-offspring interactions, ontogeny, *Pan troglodytes*, *Pongo pygmaeus*
 1628.
 population dynamics, *Microtus pennsylvanicus*, *Microtus breweri* 236.
 population structure, limiting factors, *Enhydra lutris*, USA, California 2364.
 predatory behavior, activity patterns, spatial distribution, *Felis* 3865.
 predatory behavior, reviews, *Camivora* 3835.
 prenatal experience effects on, stress, sheep 1620.
 rabies epizootiology, mathematical models, *Vulpes vulpes* 3824.
 ranging behavior, *Callithrix humeralifer* 246.
 ranging behavior, urban environments, dogs 2216.
 rearing, handling, *Gorilla gorilla gorilla* 3868.
 reinforcement, division of labor, rats 2945.
 reproductive behavior, migrations, *Caretta caretta* 2906.
 sanitation, excretory products distribution, *Mallos greagalis* 1359.
 sex differences, social structure, *Meriones unguiculatus* 2588.
 sexual behavior, behavioral genetics, dominance, males, cattle 182.
 sexual behavior experience, *Acomys cahirinus* 3559.
 sexual behavior, genetic factors, *Larus* 2470.
 sexual behavior, scent marking behavior, *Callithrix jacchus* 2512.
 sexual behavior, sex hormones effects on, *Macaca mulatta* 2514.
 siblings recognition, *Peromyscus leucopus* 3634.
 social hierarchy, play, ontogeny, rats 2233.
 social interactions, infants, adults, males, *Papio cynocephalus* 1389.
 social interactions, intraspecific relationships, adults, juveniles, *Haliaeetus*
leucophaea 235.
 social organization, domestication effects on, *Canis lupus lycon*, dogs 3633.
 social organization, food exploratory behavior, *Saimiri sciureus* 249.

Social behavior, (continued)

social organization, *Pan paniscus* 3651
 social structure, seasonal variations, *Taurotragus oryx* 2584
 social structure, siblings, *Macaca mulatta* 3642
 social structure, social rank, mice 3629
 spatial distribution, vocalization behavior, males, *Hyla ebraccata* 32
 territorial behavior, aggressive behavior, intruder, *Saguinus oedipus oedipus*,
Saguinus fuscicollis fuscicollis 1384
 territorial behavior, breeding, *Oenanthe isabellina* 3622
 visual stimuli, juveniles, *Macaca radiata* 1386

Social bonds,

imprinting, juveniles, chickens 1367
 reinforcement schedule, fixed ratio schedule, fixed interval schedule, juveniles,
 ducks 1672

Social environment,

deprivation, effects on social behavior, sexual behavior, chickens 2911
 early experience, effects on maze learning, mice 3887
 effects on aggressive behavior, septum lesions, mice 4248
 effects on food consumption, *Acheta domestica* 3672
 housing, stress, effects on escape behavior, mice 2237
 hyperactivity, 6-hydroxydopamine, neonates, rats 3170
 hypothalamus (medial) lesions effects on obesity, hyperactivity, rats 2028
 isolation, aggressive behavior, hormones effects on, mice 1196
 isolation, effects on locomotor activity, antidepressants, rats 523
 isolation, effects on orientation, ontogeny, rats 3879
 isolation, effects on sexual behavior, males, rats 1561
 isolation, effects on valproic acid sensitivity, 5-hydroxytryptamine metabolism,
 rats 4357
 isolation, habitat, activity patterns, locomotor activity, rats 1571
 isolation, social behavior ontogeny, *Mesocricetus auratus* 3636
 rearing, cognitive ability motor activity, ontogeny, rats 3889
 rearing, effects on open-field behavior, juveniles, sheep 3348
 rearing methodology, *Gorilla gorilla gorilla* 4439
 roosting behavior, locomotor activity, restlessness, *Turdus migratorius* 2836
 schooling behavior, larvae, *Rhinophrynus dorsalis* 3631
 sexual behavior, effects on, arousal, *Papio ursinus* 1340
 sexual behavior, sexual maturity, growth, *Rhombomys opimus* 3556
 social interactions, social organization, sexual behavior, *Macaca fascicularis*
 3644

Social facilitation,

aggregation behavior, energetics, food availability, *Ochrotomys nuttalli* 3820

Social hierarchy,

aggressive behavior, evolution, mathematical models 503
 aggressive behavior, marking behavior, *Mus musculus* 1210
 aggressive behavior, maternal behavior, females, *Mirounga lionina* 2545
 aggressive behavior, threatening behavior, *Cercopithecus aethiops* 1387
 agonistic behavior, fighting, *Canis latrans* 1205
 copulation, competition, rats 3562
 dominance, age, females, *Macaca radiata* 99
 dominance, aggressive behavior, *Teleorhynchus oceanicus* 2370
 dominance, daimes, cattle 1375
 dominance, evolution, Primates 3645
 dominance, housing preferences, cattle 2219
 dominance, olfactory stimuli role, *Nauphoeta cinerea* 3482
 dominance, *Pantherogaster nigricans serrei* 2891
 dominance, phenotypes, cattle 1377
 dominance, spawning, *Herotlapia multispinosa* 2374
 dominance, subordination, *Macaca sylvana* 3646
 drinking behavior, females, *Cercopithecus aethiops* 1232
 feathers, plumage, display, *Paradisaea decora* 44
 feeding behavior, interspecific relationships, agonists, *Meliphaga* 3732
 food availability, juveniles, siblings, *Harmatopus ostralegus* 2375
 feeding behavior, lek, polygamy, social hierarchy, *Chlorophila caudata* 1313
 pleometric foundations, haplometric foundations, sexual reproduction,
 breeding success, *Polistes gallicus* 2372
 social behavior, play, ontogeny, rats 2233
 social organization, aggressive behavior, goats 3635
 social organization, spatial distribution, *Papio* 2591
 social structure, competition, agonistic behavior, *Presbytis entellus* 2595

Social interactions,

aggression, dominance, testosterone, binding, central nervous system, mice 1045
 aggression, hormones effects on, mice 64
 aggressive behavior, avoidance behavior, *Clethrionomys glareolus* 2587
 agonistic behavior, attraction, statistical analysis, horses 2200
 agonistic behavior, display, *Oplurus quadrimaculatus*, *Oplurus grandident*,
Oplurus fiemensis, *Oplurus cyclurus*, *Oplurus cuvieri*, Madagascar 3613
 agonistic behavior, males, *Mirounga angustirostris* 3448
 agonistic behavior, scent marking behavior, monkeys 3643
 association, age effects, *Aepyeceros melampus* 240
 aversion learning, conditioned response, *Meriones unguiculatus* 576
 avoidance behavior, wheel running, rats 565
 captivity, *Erythrobates patas* 1342
 carnivores, resource exploitation, mathematical models, predator-prey
 interactions, territorial behavior 1068
 communication, hormones, pheromones, reproductive behavior, conferences 4499
 communication, *Vespertilio* 48
 conspecifics, *Reticulitriton* 7
 copulation time, parasitism, *Trichopoda pennipes*, *Nezara viridula* 1540
 dominance, habitat selection, *Pan major* 3813
 dominance, seasonal variations, aggressive behavior, males, *Macaca fuscata* 193
 effects on feeding behavior ontogeny, rats 1516
 effects on hormones, males, *Streptopelia risoria* 1365
 emotional behavior, depression, agitation, juveniles, *Macaca mulatta* 1103
 evolution, parental behavior, reproductive behavior, seasonal variations,
Calidrinidae 507
 feeding behavior, activity patterns, diurnal variations, *Cercopithecus cephus*
 498
 foraging behavior, adults, juveniles, *Rissa brevirostris* 2725
Fringilla coelebs effects on *Fringilla monifringilla* migrations timing 3012
 groups, sexual behavior, mother-offspring interactions, *Macaca fuscata* 3574
 home range, breeding behavior, burrowing behavior, dispersal, *Gopherus*
polyphemus, USA, Georgia 510
 imprinting effects on, dogs 1014
 infants, adults, males, *Papio cynocephalus* 1389
 intercan pressure, home range, nests, winter, *Picoides borealis* 1222
 juveniles, castration effects on, *Saguinus fuscicollis* 244

Social interactions, (continued)

marking behavior, sexual reproduction, *Rhombomys opimus* 185
 mate selection, display, *Macaca fuscata* 51
 modulation, hormones, sexual behavior, aggressive behavior, males 4396
 nesting behavior, site selection, *Bembix pruina* 3791
 ontogeny, maternal behavior, mother-offspring interactions, infants, *Macaca*
silenus 3800
 pair bond, grooming, sex differences, *Cacatua roseicapilla* 3620
 pair bond, mating behavior, *Streptopelia risoria* 3520
 parental behavior, mother-offspring interactions, *Aotus trivirgatus* 208
 play, adults, *Ursus maritimus* 2235
 play, social behavior, mother-offspring interactions, dominance, *Cervus elaphus*
 1369
 population density effects on, copulation, *Alouatta palliata* 196
 population density effects on, *Microtus pennsylvanicus*, *Microtus breweri* 236
 population density effects on, spatial distribution, segregation, *Ursus maritimus*
 2579
 reproductive behavior, life history, *Passeriformes* 177
 seasonal variations, *Alces alces* 238
 social behavior, intraspecific relationships, adults, juveniles, *Haliaeetus*
leucocephalus 235
 social environment, social organization, sexual behavior, *Macaca fascicularis*
 3644
 social hierarchy, dominance, age, females, *Macaca radiata* 99
 social rank, females, pigs 96
 song, memory, *Passerina cyanea* 1165
 spatial distribution, ontogeny, *Spermophilus richardsoni* 3631
 spatial distribution, sex differences, age effects, protection, *Papio*
cynocephalus 248
 subordination, feeding behavior, territorial behavior, *Pynglena leucorhoa*,
Pythys albus 512
 vocalization behavior, sex differences, *Spermophilus beecheyi* 2312
 vocalization behavior, ultrasound, hormones, *Rodentia* 4403

Social organization,

aggressive behavior, inbreeding, *Mus musculus* 3630
 agonistic behavior, aggressive behavior, goats 3635
 agonistic behavior, *Canis lupus* 3446
 association, age effects, *Aepyeceros melampus* 240
 breeding success, parental behavior, *Branta canadensis maxima* 2456
 caste differentiation, feeding behavior, division of labor, *Pogonomymex owybex*
 1362
 colonial characteristics, activity patterns, *Mallos gregalis* 3608
 colonial characteristics, *Lasioglossum zephyrum* 2560
 colonies, spatial distribution, *Merops bullockoides* 3472
 dominance, spatial distribution, vocalization behavior, *Alouatta palliata* 3649
 dominance, territorial behavior, home range, habitat utilization, *Uta*
stansburiana 1220
 ecological distribution effects on, *Callimico goeldii*, Bolivia 1380
 economics, feeding, *Pan troglodytes*, *Papio* 250
 effects on population genetics, *Oryctolagus cuniculus* 243
 evolution, biology, reviews 3853
 feeding behavior, defensive behavior, flocking behavior, *Caryothraustes*
canadensis polioaster, Costa Rica 2574
 food availability, activity patterns, *Canis latrans* 2736
 food availability, resource partitioning, *Mus musculus* 3625
 food organisms size effects on, *Canis latrans* 237
 foraging behavior, *Kobus ellipsiprymnus*, Zimbabwe 1370
 home range, *Cervus elaphus roosevelti* 2583
 juveniles, *Tupaia glis* 3650
 Marmota menziesii, USSR 3823
 mate selection, genetic factors, *Peromyscus polionotus* 183
 mating behavior, *Molothrus ater* 3546
 migrations, home range, *Odocoileus virginianus*, USA, Minnesota 3626
 population density, *Simias concolor*, *Presbytis potenziani*, Sumatra, Siberia 1
 3640
 population structure, *Colius striatus*, Gabon 3617
 population structure, environmental factors, *Lama vicugna*, Peru, Pampa Galeras
 National Reserve 3623
 population structure, habitat, *Cervus dama*, France, Alsace 3624
 population structure, *Macaca fuscata* 3639
 population structure, *Papio cynocephalus*, Tanzania 1381
 population structure, social behavior, *Saimiri sciureus* 249
 problem solving, feeding behavior, sympatric populations, *Saimiri sciureus*,
Callicebus moloch 4019
 reproductive behavior, aggressive behavior, horses 2586
 reproductive behavior, scent marking behavior, horses 2507
 Rhinoceros unicornes, Nepal, Chitawan Valley 3826
 schooling behavior, definition, Pises 2570
 schooling behavior, denervation, lateral line nerves, *Notemogonus crysoleucas*
 2353
 social behavior, domestication effects on, *Canis lupus lycaon*, dogs 3633
 social behavior, *Pan paniscus* 3651
 social environment, social interactions, sexual behavior, *Macaca fascicularis*
 3644
 social hierarchy, spatial distribution, *Papio* 2591
 spatial distribution, dominance, interspecific relationships, cattle 1226
 spatial distribution, males, *Papio cynocephalus* 1228
 spatial distribution, singing sites, aggregation behavior, population density,
 males, *Amblycorypha parvipennis* 1219
 spawning behavior, *Dendrochirus zebra*, Japan, Izu I., 228
 sterility, fertility, queens, *Leptothorax prochantheri* 1259
 subroosting, seasonal variations, *Papio ursinus*, South Africa, Suikerbosrand
 3647
 territorial behavior, breeding success, *Passerina cyanea* 2292
 territorial behavior, *Canis latrans*, Canada 3836
 territorial behavior, home range, population density, *Eremias grammica* 3468
 territorial behavior, interspecific relationships, silk repellents, *Dictyna*,
Mallos 1361
 territorial behavior, sexual behavior, mice 2585
 territorial behavior, spatial distribution, *Mus musculus*, New Zealand 1225
 trophallaxis, nest provisioning, brood care, environmental effects, *Tapinoma*
eraticum 2559

Social rank,

age effects, sex differences, body weight, *Odocoileus virginianus borealis* 95
 agonistic behavior, adrenal gland, mice 1963
 breeding success, temporal variations, birth, *Macaca mulatta* 3484

Social rank, (continued)

- competition, *Presbytis entellus* 98.
- copulation, breeding success 3486.
- defensive behavior, alarm behavior, aggressive behavior, females, *Cercopithecus aethiops* 2596.
- dominance, coloration, agonistic behavior, *Coreoperca kawame* 3483.
- dominance, females, androgens effects on, *Equus caballus* 97.
- dominance, parasites effects on, *Heligmosomoides polygyrus*, mice 1230.
- dominance, replacement, males, *Macaca fascicularis* 2378.
- dominance, spatial distribution, pigs 3479.
- dominance, subordination, feathers color, plumage badge, *Zonotrichia querula* 94.
- dominance, testosterone plasma levels, males, mice 2376.
- effects on breeding success, copulation, *Peromyscus maniculatus* 1332.
- egg production, chickens 4447.
- feeding behavior, aggressive behavior, rearing, chickens 3343.
- infanticide, males fitness, *Macaca mulatta* 1214.
- males, , breeding success, *Macaca sylana* 1231.
- mate selection, rats 3560.
- mother-offspring interactions, play, *Macaca fuscata* 2234.
- offspring, *Macaca mulatta* 3485.
- olfactory perception, conspecifics, *Lemmus trimucronatus* 1177.
- parental behavior, males, mice 2547.
- social behavior, groups, *Capra waalei* 2582.
- social behavior ontogeny, mother-offspring interactions, *Macaca mulatta* 2592.
- social behavior, social structure, mice 3629.
- social interactions, females, pigs 96.

Social spacing,

- crowding effects on, juveniles, *Hemichromis bimaculatus* 2349.
- territorial behavior, vocalization behavior, *Callicebus moloch* 3481.

Social structure,

- aggressive behavior, hormones, *Saimiri* 3330.
- dominance, measuring techniques, methodology, cattle 3339.
- resource availability, diets, *Colobus angolensis* 2768.
- social behavior, ontogeny, *Microtus ochrogaster*, *Microtus pennsylvanicus* 3637.
- social behavior, seasonal variations, *Taurotragus oryx* 2584.
- social behavior, sex differences, *Meriones ungulatus* 2588.
- social behavior, siblings, *Macaca mulatta* 3642.
- social behavior, social rank, mice 3629.
- social hierarchy, competition, agonistic behavior, *Presbytis entellus* 2595.

Sociobiology,

- behavioral genetics, evolution, selection 2873.

Sociological aspects,

- drug effects, morphine, stereotyped behavior, locomotion, mice 1009.
- protein deprivation, ontogeny, maternal behavior, exploratory behavior, rats 524.
- sexual behavior, maternal behavior, aggression, infanticide, *Macaca fascicularis* 194.

Sodium,

- requirements, sex differences, mud feeding, *Pteris rapae* 2632.

Sodium chloride,

- drug effects, food intake, taste aversion, saccharin, rats 977.
- external stimuli, suppression, taste perception 4099.
- osmoregulation, behavior, ablation, amygdala, hypothalamus, rats 794.

Sodium n-dipropylacetate,

- effects on stereotyped behavior, wet dog shakes, rats 4381.

Soli,

- feeding behavior, nutrient requirements, *Gopherus agassizii* 3682.

Soli characteristics,

- effects on juveniles vertical migrations, *Meloidogyne incognita* 622.

Soil moisture,

- effects on seeds localization, foraging behavior, *Rodentia* 2752.

Soil temperature,

- burrowing behavior, pits construction, *Myrmeleon immaculatus* 2801.

Solar eclipse,

- effects on activity patterns, rats 2859.

Solar radiation,

- effects on, thermoregulation, webs, orientation, *Microthema gracilis* 2998.

Solenopsis geminata,

- interspecific relationships, defense mechanisms, *Reticulitermes flavipes*, *Reticulitermes virginicus* 1189.

Solenopsis invicta,

- anti-predator behavior, defensive behavior, *Myrmeleon* 2810.

Solenopsis molesta,

- colony characteristics, nutrients effects on feeding behavior 1411.

Solenopsis molesta,

- pheromones, sensitivity, bioassays 27.

Solidago juncea,

- host plants, effects on predation, *Misumena vatia* 273.

Solitary tract nucleus,

- neurona, gustatory stimuli, sensitivity, taste perception, hamsters 4120.

Solvents,

- effects on, locomotor activity, temporal perception, operant conditioning, rats 514.

Somateria mollissima,

- predation, feeding behavior, *Pomatomus saltatrix* 3688.

Somatosensory,

- effects on food intake 932.

Song,

- acoustic communication, computer applications, *Cystosoma saundersii* 24.
- acoustics, *Turdus merula* 3410.
- alarm behavior, breeding, *Cisticola juncidis* 2306.
- auditory communication, *Cicadetta sinuipennis* 1144.
- auditory communication, geographical variations, *Oenanthe picata* 3411.
- auditory communication, geographical variations, reproductive isolation, *Muehlenanella* 3382.
- auditory communication, *Gromphadorhina chopardi* 3387.
- auditory communication, habitat, *Caprimulgus carolinensis*, *Caprimulgus voliferus*, USA, Georgia 1158.
- auditory communication, habituation, *Zonotrichia leucophrys nuttalli* 1630.
- auditory communication, *Nezara viridula* 3388.
- auditory discrimination, territorial behavior, *Agelaius phoeniceus* 3414.
- calling behavior, motivation, *Taeniopygia guttata* 1172.
- complexity, vocalization behavior, learning behavior, geographical variations, *Troglodytes troglodytes* 42.
- conspecific identification, *Agelaius phoeniceus* 2307.
- courtship, genetics, *Drosophila melanogaster*, *Drosophila simulans*, *Drosophila*

Song, (continued)

- mauritaniana* 1291.
- defensive behavior, territorial behavior, *Agelaius phoeniceus* 2362.
- early experience effects on, *Zonotrichia leucophrys* 1162.
- effects on breeding success, males, *Parus major* 35.
- effects on females copulation posture, bioacoustics, *Molothrus ater ater* 1163.
- feeding behavior, nests, habitat preferences, *Chenonhamphus grayi*, New Guinea 1566.
- geographical variations, *Amphispiza belli* 3412.
- geographical variations, *Certhia familiaris*, 2301.
- geographical variations, *Emberiza calandra* 2305.
- geographical variations, *Emberiza citrinella*, 3416.
- geographical variations, *Toxostoma rufum* 3404.
- habitat, acoustics, *Thryothorus ludovicianus* 3420.
- habitation, sensitization, *Zonotrichia leucophrys nuttalli* 3892.
- hormones, females, *Taeniopygia guttata castaneotis* 3415.
- juveniles, *Emberiza schoeniclus* 3408.
- learning, auditory communication, *Melospiza georgiana* 1164.
- learning behavior, memory, *Melospiza georgiana* 3422.
- males, spatial distribution, reproductive behavior, *Cystosoma saundersii* 1278.
- matching, vocalization behavior, conspecifics, *Turdus merula* 1174.
- mate selection, *Zonotrichia leucophrys oriantia* 3399.
- memory, social interactions, *Passerina cyanea* 1165.
- mimicry, breeding success, *Passerina cyanea* 2292.
- mimicry, vocalization behavior, *Melospiza lincolni* 2293.
- neurophysiology, brain, vocalization behavior, *Serinus canarius* 811.
- ontogeny, learning, auditory communication, *Fringilla coelebs* 1168.
- parental behavior, males, *Saxicola torquata* 2538.
- phonotaxis, aggregation behavior, *Gryllus integer*, *Gryllus veletis*, *Teleogryllus oceanicus* 3463.
- phonotaxis, landing behavior, orientation, *Scapteriscus acletus* 1905.
- population density effects on, geographical variations, *Emberiza calandra* 2300.
- recognition, auditory communication, sex differences, *Phylloscopus collybita* 3418.
- response, auditory discrimination, dialects, *Zonotrichia leucophrys* 1167.
- seasonal variations, brain anatomy, *Serinus canarius* 2299.
- sequence, vocalization behavior, geographical variations, *Passerculus sandwichensis*, Canada 37.
- song matching, *Parus major* 1161.
- territorial behavior, breeding success, *Vireo olivaceus* 2294.
- territorial behavior, *Fringilla coelebs* 3405.
- territorial behavior, interspecific relationships, *Fringilla coelebs*, *Parus major* 2290.
- territorial behavior, *Sturnella magna*, *Sturnella neglecta* 2355.
- variability, geographical distribution effects on, *Dendroica pensylvanica*, *Vermivora pinus* 1159.
- variants, populations, hybrids, *Chorthippus mollis* 1140.
- variation, conspecifics recognition, flocking behavior, *Parus atricapillus* 1171.
- vocalization behavior, arousal, territorial behavior, interspecific relationships, *Agelaius phoeniceus* 233.
- vocalization behavior, deafness, *Serinus canarius* 3417.
- vocalization behavior, distribution, evolution, *Phylloscopus* 43.
- vocalization behavior, forebrain size, sex differences, *Serinus canarius* 782.
- vocalization behavior, forests acoustics effects on, *Thryothorus ludovicianus* 39.
- vocalization behavior, geographical variations, environmental effects, *Zonotrichia capensis*, Argentina 475.
- vocalization behavior, location, geographical distribution, conspecifics, *Poocetes gramineus* 1160.
- vocalization behavior, *Melospiza melodia* 3402.
- vocalization behavior, nesting behavior, *Merops apiaster* 2304.
- vocalization behavior, ontogeny, *Melospiza georgiana* 3419.
- vocalization behavior, territorial behavior, courtship, *Seiurus aurocapillus* 41.
- vocalization behavior, territorial behavior, horizontal distribution, distance, *Luscinia megarhynchos* 232.
- vocalization behavior, variability, *Vireo griseus griseus* 36.
- vocalization, *Lyboides torquatus* 1169.

Sorex araneus,

- feeding behavior, diets, food availability, life history, British Isles 1519.

Sorex isodon,

- food selection, predators, feeding behavior, prey size, competition 399.

Sorex isodon,

- aggressive behavior, interspecific relationships, juveniles, parental behavior 3458.

Sorex minutus,

- feeding behavior, diets, food availability, life history, British Isles 1519.

Sorex monticolus,

- burrowing behavior, vegetation patterns, habitat preferences, ecological distribution 487.

Sorex trowbridgii,

- burrowing behavior, vegetation patterns, habitat preferences, ecological distribution 487.

Sorex vagrans,

- burrowing behavior, vegetation patterns, habitat preferences, ecological distribution 487.

Sorghum vulgare,

- host plants, oviposition, substrate preferences, *Atherigona soccata* 3493.

Sound,

- auditory perception, frequency, perceptual onset asynchronies 4098.
- discrimination learning, pigeons, *Agelaius phoeniceus*, *Molothrus ater* 1771.
- echolocation, orientation, auditory communication, *Mammalia*, books 3372.
- frequency, auditory perception, binaural masking 4095.
- localization, auditory perception, early experience effects on, *Tyto alba* 3082.
- localization, auditory perception, predatory behavior, *Tyto alba* 3081.
- operant response, temporal discrimination, rats 1826.

Sound production,

- aggregation behavior, movements, spatial distribution, males, *Neoconocephalus ensiger* 3467.
- auditory communication, biology, reviews, *Aves* 3407.
- auditory communication, *Gromphadorhina chopardi* 3387.
- calling behavior, reproductive isolation, *Nephotettix cincticeps*, *Nephotettix virescens*, *Nephotettix nigropictus*, *Nephotettix malayanus* 3379.
- defensive behavior, activity patterns, *Sipholodes siphylus* 2319.
- durnal variations, tropical environment, *Cicadidae* 2267.
- intensity, calling behavior, mating, *Sialia*, *Sialia* 3396.
- neurophysiology, *Oryzias latipes* 4187.
- sexual behavior, testosterone effects on, *Coturnix japonica* 4401.
- stridulation, communication, acoustics, *Coridae* 3381.

Sound production, (continued)

- stridulation, Eupholidoptera chabrieri epirocha 3391
 vocalization behavior, *Balaena mystecus* 2309
 vocalization behavior, geographical distribution, *Eleutherodactylus coqui* 3395

Sound production (biological),

- age, hunger effects on, *Glossina morsitans* 5
 auditory communication, *Glossina* 1141
 auditory communication, males, *Zonocerus variegatus* 1142
 auditory communication, song, *Cicadetta sinuata* 1144
 calling behavior, localization, *Cebulella pygmaea* 1186
 echolocation, flight, *Desmodus rotundus* 1859
 echolocation, orientation, *Desmodus rotundus* 1857
 nesting behavior, aggressive behavior, *Orchelimum gladiator*, *Dissostera carolina* 143
 nests, defense mechanisms, *Synoecca virginea* 1554
 patterns, diurnal variations, *Glossina morsitans* 6
 song, vocalization, *Lybius torquatus* 1169
 stridulation, workers, *Leptothorax muscorum* 1131
 variability, auditory communication, *Drosophila nasuta* 30
 vocalization behavior, companions, 5 species, *Cetacea* 1179
 vocalization behavior, physiology, *Delphinidae* 45

South Africa,

- reproductive behavior, life history, *Masandae* 444

Space flight,

- gravity, retention, maze learning, rats 2981

***Spalangia cameroni*,**

- parasitoids, host searching behavior, chemical stimuli, *Musca domestica* 3784

***Spalangia edulis*,**

- parasitoids, host searching behavior, chemical stimuli, *Musca domestica* 3784

***Spalax ehrenbergi*,**

- speciation, evolution, behavior role, isolation 509

***Sparisoma radians*,**

- foraging behavior, diets 2676

Spacial discrimination learning,

- acquisition, thalamic mediodorsal nucleus mamillary bodies lesions effects on, cats 4245
 age effects, neurochemistry, *Rattus rattus* 845
 hippocampus, neurons depletion, rats 3151
 lesions effects on, hippocampus, cortex (frontal), rats 4237
 maze learning, delayed reinforcement, *Cebus apella* 1795
 memory, hippocampus, rats 3166
 memory, retroactive inhibition, maze learning, rats 1818
 neonates, rats 4004

Spacial distribution,

- activity patterns, predatory behavior, *Felis* 3865
 aggregation, resting behavior, sympatric populations, *Limax* 1216
 burrows, territorial behavior, reproductive strategy, *Thomomys bottae* 2368
 caffeine, effects on schooling behavior, *Hemichromis bimaculatus* 4282
 colonies, social organization, *Merops bullockoides* 3472
 competition, streams, *Salvelinus fontinalis*, *Salmo trutta*, USA, Michigan 2826
 controlled conditions, population density, *Edulia tuberosa* 84
 dominance, social rank, pigs 3479
 foraging behavior, intraspecific relationships, competition, colonies, *Pogonomymex badius* 1424
 habitat selection, sex differences, *Ovis canadensis*, Canada, Alberta 2865
 home range, abundance, *Clethrionomys glareolus* 2367
 home range, food availability effects on, *Tamias striatus* 2366
 intraspecific relationships, environmental effects, hormones, *Saimiri sciureus* 1227
 males, reproductive behavior, *Cystosoma saundersii* 1278
 movements, aggregation behavior, sound production, males, *Neonoccephalus ensiger* 3467
 nesting behavior, intraspecific relationships, *Bembix pruinosus* 2795
 orientation, schooling behavior, larvae, *Bufo woodhousei*, *Xenopus laevis* 3796
 population density effects on, models 1215
 population density effects on social interactions, segregation, *Ursus maritimus* 2579
 prey, predator-prey interactions, predatory behavior, *Phytoseiulus persimilis*, *Amblyseius degenerans* 2608
 prey, predatory behavior, *Phytoseiulus persimilis*, *Amblyseius degenerans*, 2606
 settling behavior, survival, aggregation, *Pontes pontes* 83
 sex differences, overwintering, *Phalaropus fulicarius*, *Calidris alba* 3812
 social behavior, , vocalization behavior, , *Hyla eberracata* 32
 social interactions, ontogeny, *Spermophilus richardsoni* 3631
 social interactions, sex differences, age effects, protection, *Papio cynocephalus* 248

- social organization, interspecific relationships, dominance, cattle 1226
 social organization, males, *Papio cynocephalus* 1228
 social organization, singing sites, aggregation behavior, population density, males, *Amblycorypha parvipennis* 1219
 social organization, social hierarchy, *Papio* 2591
 social organization, territorial behavior, *Mus musculus*, New Zealand 1225
 social organization, vocalization behavior, dominance, *Alouatta palliata* 3649
 territorial behavior, aggregation, *Malanopsis formicivorus* 2359
 territorial behavior, winter, *Cinclus pallasi* 2356
 vertical migrations, diel activity, host plants, *Acyrtosiphon gossypii* 2814
 vocalization behavior, interspecific relationships, aggressive behavior, *Cistothorus palustris*, *Agelasma phoeniceus* 3445

Spacial variations,

- territory, foraging behavior, *Myrmecocystus mimicus* 1418

Spawning,

- dominance, social hierarchy, *Herotapia multispinosa* 2374
 feeding behavior, chemoreception, pheromones, *Clupea harengus pallasi* 1296
 littoral zone, mortality, air, exposure, site selection, behavior, *Fucus distichus*, *Clinocottus aculeatus*, Canada, British Columbia Coast 155
 mating behavior, *Centropyge* 2455
 mating behavior, *Notropis callitania* 2454
 mating behavior, oviposition, *Macrobrachium nipponense* 2449
 migrations, geographical variations, seasonal variations, *Gadus morhua callarias*, Baltic Sea 651
 parental behavior, nests, *Ophiodon elongatus* 2452
 reproductive behavior, *Tandanus tandanus* 2450
 sexual behavior, courtship, sex ratio, environmental factors, *Tautoga onitis* 156
 spawning behavior, bioluminescence, lunar rhythm, *Odontosyllis enopla* 703
 courtship, *Tautoglabrus adspersus*, Canada, Newfoundland, Bonne Bay 153

Spawning behavior, (continued)

- diurnal variations, periodicity, *Labridae* 2451
 mating behavior, *Oncorhynchus gorbuscha* 3531
 night, *Ophiuridium pictum*, *Capillaster multiradiatus*, *Bohadschia marmorata*, Palau Is. Coast 3487
 sexual behavior, forebrain lesions effects on, males, *Carassius auratus* 4219
 social organization, *Dendrochirus zebra*, Japan, Izu I. 228
 territorial behavior, nest building, *Colisa chuna* 3527
- Specialization,**
 food preferences, food composition, flowers, *Apis mellifera* 1417.
- Speciation,**
 evolution, behavior role, isolation, *Spalax ehrenbergi* 509
 reproductive behavior, isolation, natural selection, behavioral genetics, mathematical models 1064
 sympatric populations, behavior effects on, *Drosophila heteroneura*, *Drosophila silvestris* 446
- Species,**
 recognition, visual perception, discrimination learning, juveniles, chickens 1216
- Species composition,**
 feeding behavior, marine fauna, food composition, environmental factors, Aves, Irish Sea 365
- Species diversity,**
 electric communication, sympatric populations, *Mormyridae*, Gabon, Ivindo R. 3398.
- Speothos venustus*,**
 social behavior, feeding behavior, ontogeny 2917
 vocalization 1183
- Sperm,**
 displacement, bursa copulatrix, mating behavior, males, *Lestes vigilax* 3506.
 use, copulation, females, *Drosophila pseudoobscura* 104.
- Sperm storage,**
 mating behavior, *Prothynia marginata* 3514.
- Spermatophores,**
 morphology effects on mating behavior, vertical migrations, *Pleuromamma piseki* 422
- Spermatozoa,**
 copulation, reproductive behavior, *Nezara viridula* 110.
- Spermiae,**
 drugs, effects on food intake, water intake, rats 3296.
- Spermophilus beecheyi*,**
 vocalization behavior, response, predators, social interactions, sex differences 2312.
- Spermophilus beldingi*,**
 vocalization behavior, alarm behavior 3431.
- Spermophilus columbianus*,**
 conspecific odors recognition, scent marking behavior, chemical communication 3424
 social behavior, exploratory behavior, ontogeny 520.
- Spermophilus lateralis*,**
 circadian rhythms, wheel running, photoreceptors, light effects 760.
 hibernation, feeding behavior, insulin effects on 1503.
 social behavior, exploratory behavior, ontogeny 520.
- Spermophilus richardsoni*,**
 hibernation behavior, thyroidectomy, serum levels, thyroid hormones, radioimmunoassay 1044
- Spermophilus richardsoni*,**
 ontogeny, spatial distribution, social interactions 3631.
- Spermophilus townsendii*,**
 diets, food preferences 2751
- Spermophilus tridecemlineatus*,**
 alarm behavior, vocalization behavior 3430.
- Spheg ichneumonensis*,**
 interspecific relationships, kleptoparasitism, feeding behavior, *Passer domesticus* 376
- Spodros abboti*,**
 life history, mating behavior, sex pheromone 2889
- Spodros rufipes*,**
 life history, mating behavior, sex pheromone 2889
- Sphyrna lewini*,**
 schooling behavior 1848
- Spinal cord,**
 dopamine, tail-flick response, rats 4161
 lesions, effects on motor activity, cats 1983
 motor neurons activity, classical conditioning, cats 4201.
 nerves, ablation, effects on avoidance learning, rats 798.
 neurons, polarization, locomotion effects on, cats 844
- Spionidae,**
 feeding behavior, suspended matter, USA, Chesapeake Bay 258.
- Spiperone,**
 effects on drinking behavior, stereotyped behavior, rats 4330.
- Spirochaeta aurantia*,**
 chemotaxis, sugars, role, membrane potential 1833.
- Spizella breweri*,**
 nesting behavior, site location, *Artemisia*, vertical distribution 1305.
 nesting, breeding success, territorial behavior, USA, Idaho 2465.
- Spizella pusilla*,**
 food preferences, seeds 358.
- Spodoptera,**
 food organisms, feeding behavior, *Hyla cinerea* 3680.
- Spodoptera exempta*,**
 flight activity, food availability effects on 435.
- Spodoptera exigua*,**
 compound eyes, light sensitivity, ultraviolet radiation, light traps 712.
- Spodoptera frugiperda*,**
 flight activity, temperature effects 1866
- Spodoptera frugiperda*,**
 compound eyes, light sensitivity, ultraviolet radiation, light traps 712.
- Spodoptera littoralis*,**
 sex, pheromone, olfactory perception, electroantennograms 1903.
- Spodoptera litura*,**
 chemical communication, sex pheromone, (Z)-9-alkenols effects on inhibition 29.
 sex pheromone components, effects on males flight 25.
- Spontaneous alternation,**
 compound schedules, configurations, rats 1685.
 exploratory behavior, reinforcement, novelty, rats 4466.
 maze learning, memory, exploratory behavior, rats 1817.

- Spontaneous alternation, (continued)**
memory, learning behavior, rats 1783.
- Spontaneous recovery,**
reinforcement, nonreinforcement, stimulus control, pigeons 1666.
- Sprague Dawley rat,**
stereoselectivity, drug effects, feeding, antagonists, agonists, opioids 2131.
- Spring,**
migration, *Delichon urbica*, Romania 661.
- Squamata,**
behavior ecology 459.
- Stability,**
pair bond, effects on breeding success 1233.
urine odors, chemical communication, guinea-pigs 1180.
- Staphylinidae,**
social behavior, foraging behavior 2563.
- Startle response,**
electrophysiological recording, cinematography, *Carassius auratus* 1914.
habituation, hippocampus lesions effects on, rats 2032.
habituation, reticular formation lesions effects on, rats 3205.
locus coeruleus lesions, 6-hydroxydopamine, rats 3200.
morphine, analgesia, rats 4372.
motor activity, monosodium glutamate effects on, rats 4339.
naloxone, intrauterine exposure effects on, rats 3249.
acute stimuli, drug effects, caffeine, rats 2144.
- Starvation,**
effects on feeding behavior starvation, *Hydra* 276.
- Statistical analysis,**
attraction, social interactions, agonistic behavior, horses 2200.
biometrics 2189.
biometrics, methodology 2192.
drug effects on operant conditioning responsiveness, rats 991.
methodology 1080.
methodology 2191.
methodology 2193.
response rate, fixed interval schedule 1637.
temperature preferences, acclimation, *Oncometopis obscurus* 2769.
variance, male sterility, competitiveness, *Insecta* 2194.
vocalization behavior, classification, *Saimiri sciureus* 2315.
- Statistical genetics,**
altruism, kin selection 2874.
- Statocysts,**
ablation, effects on geotaxis, *Lymnaea stagnalis* 4034.
- Stepasites fasciatus,**
territorial behavior, feeding behavior, symbiosis, coral reefs 2350.
- Stellio stellio,**
thermoregulatory behavior, geographical variations 3797.
- Stenopodidae,**
cleaning behavior, commensalism, *Pisces* 1113.
- Stephanella pyrioides,**
feeding behavior, host plants 1432.
- Stercorarius parasiticus,**
feeding behavior, carrion, winter 2733.
- Stercorarius skua,**
feeding behavior, food preferences 359.
- Stereoselectivity,**
drug effects, antagonists, agonists, opioids, feeding, rats 2131.
- Stereotyped behavior,**
activity patterns, glutamine effects on, rats 4218.
activity patterns, molting, *Rhodnius prolixus* 2791.
activity patterns, rhythms, infants 1627.
arousal, amphetamine, hormones effects on, rats 1002.
attention, maze learning, drugs, dopamine, mice 982.
benzene, effects on, mice 3254.
cathinone effects on, rats 2090.
cerebrospinal fluid, mediation, neurotransmitters, substance P, mice, rats 867.
chlorides, environmental factors, lithium, rubidium, cesium, open-field behavior,
exploratory behavior, rats 1112.
choice learning, conditioned response, dogs 577.
chronic effects, haloperidol, thioridazine, zotepine, rats 3258.
chronic exposure, apomorphine, effects on, rats 849.
circling behavior, kainic acid effects on, rats 3233.
climbing, apomorphine effects on, mice 3301.
clonidine, imipramine chronic administration effects on, rats 4333.
corticotropin modulation, *Columba livia* 4402.
courtship, stimulation, calling behavior, males, *Ligyrocis diffusus* 1250.
display, courtship, *Uca minax*, *Uca pugnax* 3377.
display, *Phrynosomus munitatus* 3394.
dopamine agonists, estradiol benzoate, rats 3311.
dopamine, drug effects, 5-hydroxytryptamine, rats 947.
dopamine effects on, intracranial chemical stimulation, striate cortex, rats 1019.
drinking behavior, sipperone, piribedil effects on, rats 4330.
drug effects, amphetamine, rats 2143.
drug effects, tetrahydro- β -carboline, rats 948.
ESB, substantia nigra, rats 3217.
feeding behavior, substrate preferences, geographical variations, *Dendroica pinus*, *Bahama* Is. 368.
gnawing, neuroleptics effects on, mice 952.
hippocampus, brain lesions, locomotion, reward, *Rattus rattus* 885.
homing behavior, *Cataglyphis* 1840.
inducers, drugs apomorphine, food deprivation, rats 992.
intracranial chemical stimulation, neurotransmitters, peptides, mice 926.
locomotion, drug effects, morphine, sociological aspects, mice 1009.
locomotion, instruments, sensors, rats 1093.
locomotor activity, apomorphine, rats 3299.
locomotor activity, chemoreceptors, septum, dopamine drugs, cats 850.
motivation, feeding effects on, cats 552.
motor activity, hydergine effects on, rats 3295.
motor activity, neurophysiology, *Aplysia californica* 4182.
motor activity, tetrahydrocannabinol effects on, rats 4290.
neurophysiology, reviews, monkeys, man 4215.
operant response, fixed interval schedule, fixed ratio schedule, pigeons 3914.
operant response, reinforcement schedules, pigeons 3918.
oviposition, substrate preferences, *Acheta domestica* 3512.
performance, operant conditioning, alcohol effects on, rats 4334.
phenylcyclidine, drug effects, apomorphine, rats 1012.
- Stereotyped behavior, (continued)**
self-injury, pemoline, drug effects, rats 4476.
sex hormones effects on, rats 3325.
substantia nigra, chemical stimuli effects on, rats 3152.
Substantia nigra lesions, drugs effects on, rats 898.
thermoregulation, intracranial chemical stimulation, ventricles (cerebral),
neurotransmitters, substance P, *Gallus domesticus* 834.
thermoregulatory behavior, nutrient deficiency effects on, iron, rats 521.
tranylcypromine, effects on, reserpine, rats 1004.
visual communication, conspecifics, *Reticulitermes* 7.
wet dog shakes, drugs, sodium *n*-dipropylacetate, rats 4381.
- Sterna hirsuta,**
feeding behavior, diets 3706.
feeding behavior, diets, Canada, New Brunswick, Deer I. 2700.
feeding behavior, littoral zone 2721.
nests, egg laying, *Molothrus ater* 3545.
thermoregulatory behavior, cleaning behavior 2847.
- Sterna maxima,**
mating behavior, courtship, copulation 2478.
thermoregulatory behavior, cleaning behavior 2847.
- Sterna paradisaea,**
feeding behavior, diets, Canada, New Brunswick, Deer I. 2700.
- Sterna sandvicensis,**
social behavior, foraging behavior 2706.
thermoregulatory behavior, cleaning behavior 2847.
- Sternal gland,**
role, chemical communication, *Aneides simoni* 1143.
secretions, chemical communication, *Aneides simoni* 1146.
- Steroids,**
adrenal gland, antagonism, extinction, avoidance behavior, rats 3313.
testosterone propionate, copulation, orienting response, females, *Mesocricetus auratus* 1319.
- Stictia maculata,**
nesting behavior, nest building, nest provisioning, defensive behavior 2429.
- Stimulants,**
effects on locomotor activity, mice 957.
feeding behavior, food preferences, *Echinodermata* 277.
6-hydroxydopamine lesions, effects on locomotor activity, rats 890.
response, lithium effects on, mice 1015.
- Stimulation,**
brain, autoshaping, neuroleptics effects on, rats 956.
locus coeruleus, effects on learning behavior, rats 911.
oviposition, microorganisms effects on, *Hyemyla antiqua* 129.
vagina, effects on sexual receptivity, locomotion, pain perception, rats 857.
- Stimuli,**
deprivation, cues, operant conditioning, reinforcement, rats 545.
duration, conditioned reinforcement, concurrent schedule, pigeons 1773.
duration, effects on discrimination learning, pigeons 589.
effects on conditioned response, conditioned reinforcement, pigeons 1663.
feeding behavior, food availability, *Cypophaga gibbosa* 259.
flocking behavior, food sources, *Ardeidae* 356.
food, effects on operant conditioning, *Carassius auratus* 533.
generalization, adjunctive behavior, schedule-induced behavior, polydipsia, rats 1784.
sensitivity, avoidance learning, *Rodentia* 1742.
specificity, habituation, exploratory behavior, drug effects, methodology 1078.
temperature, skin, electronic equipment, methodology 1073.
training effects on maze learning, rats 1803.
- Stimulus control,**
blocking, pigeons 2932.
blocking, rats 1643.
chain schedule, temporal discrimination learning, rats 4010.
consummatory behavior, learned response, operant response, pecking behavior,
autoshaping, pigeons 1647.
discrimination learning, conspecifics, communication, pigeons 1653.
discrimination learning, morphine, cycloazone, rats 1791.
discrimination learning, operant response, serial learning, pigeons 1772.
discriminative stimuli, concurrent schedule, variable interval schedule, operant
response, response matching, pigeons 1673.
drug effects, caffeine, rats 2104.
feeding behavior, rats 405.
fixed consecutive number schedule, drug effects, pimozide, dopamine, pigeons 2078.
go/no-go discrimination learning, blocking, rats 4003.
learning behavior, prey recognition, *Naja mossambica pallida* 3987.
matching-to-sample, memory, directed forgetting, delayed response, pigeons 1810.
multiple schedule, pigeons 3991.
nonreinforcement, spontaneous recovery, pigeons 1666.
operant conditioning, classical conditioning, discrimination learning, pigeons 3921.
operant conditioning, retention, pigeons 3904.
operant response, mixed schedule, pigeons 1649.
reinforcement schedules, pigeons 2933.
short term memory, maze learning, rats 4027.
short term memory, retention, pigeons 608.
visual stimuli, conditioned suppression, *Columba* 718.
- Stimulus duration,**
reinforcement schedules, discrimination learning, pigeons 3994.
- Stimulus quality,**
associative learning, dogs 4003.
- Stocking rates,**
body weight, grazing, rotation, pasture, irrigated areas, sheep 414.
- Stomach content,**
Hemiculter eigenmanni, USSR, *Khanka* L. 1455.
feeding behavior, diets, *Ilyanassa obsoleta* 1409.
- Stomatopoda,**
feeding behavior, mouthparts 262.
- Stomocata atra,**
feeding behavior, swimming behavior 2626.
- Stomoxys calcitrans,**
mating behavior, feeding behavior, thermoregulatory behavior 447.
- Storage,**
food sources, memory, *Parus palustris* 4021.
imprinting, biochemistry, anatomy, correlation, chickens 835.
- Storms,**
magnetic fields, homing behavior, navigation behavior, pigeons 3018.

Storms, (continued)

sheltering behavior, huddling, vocalization behavior, *Pluvialis apricaria* 2846

Strains.

body size, effects on, copulation, breeding success, *Musca domestica* 1277

circadian rhythms, motor activity, catecholamines, rats 1586

ethanol sensitivity, escape behavior, rats 2138

host plants, comparative studies, feeding behavior, *Nephotettix cinctipes* 1439

inbreeding, drug effects, naloxone, discrimination learning, mice 996

locomotor activity, enkephalin analogs effects on, mice 2112

muncide, sex differences, rats 2337

perching behavior, genetic variance, selection, chickens 3338

performance, maze learning, rats 1786

pest plants, olfactory perception, effects on behavior, *Trogodroma granarum* 23

reproductive isolation, competition, population density, *Drosophila melanogaster* 225

scheduled reinforcement, aggressive behavior, pigeons 1199

social behavior, agonistic behavior, antagonism, dominance, chickens 2206

foraging behavior, webs, site location, *Araneidae*, *Linyphiidae* 2610

Streams.

adaptations, mating behavior, courtship, *Ambystoma texanum* 3524

competition, spatial distribution, *Salvelinus fontinalis*, *Salmo trutta*, USA, Michigan 2826

flight activity, vertical distribution, horizontal distribution, *Eptesicus fuscus*, *Myotis lucifugus* 4071

Strength.

pair bond, effects on breeding success 1233

Streptopogonops jerdani.

mating behavior, copulation 2381

Streptopelia decaocto.

interspecific relationships, attack, *Passer domesticus* 2327

mobbing, anti-predator behavior, *Ruparia riparia* 2849

Streptopelia risoria.

autoshaping, CS, pairing 535

courtship behavior, hormones, auditory stimuli, visual stimuli 1301

courtship, males, hormones, androgens 1035

courtship, testosterone, implants, lesions, nucleus intercollicularis 1317

nest building, nesting behavior, sex hormones, breeding success 3533

pair bond, mating behavior 3550

parental behavior, role, olfactory stimuli 2524

sexual behavior, enzymatic activity, 5 β -reductase, testosterone 1312

vocalization behavior, courtship, estrogens, testosterone, castration, males, 2174

Stress.

aggressive behavior, inducers, drugs, apomorphine, rats 1000

amphetamine, phencyclidine effects on, operant conditioning, rats 4323

analgesia, classical conditioning, opiates, mice 4479

analgesia, escape behavior latency, rats 4480

avoidance behavior, motor activity, rats 2239

chemical communication, conspecifics, avoidance behavior, *Ambystoma tigrinum* 2282

cold stress, malnutrition, avoidance behavior, biochemical characteristics, brain, rats 575

CS, UCS, hyperthermia, alcohol, rats 4482

discrimination learning CS effects on, cats 552

dying, cardiovascular system, *Ondatra zibethica* 3370

effects on activity patterns, rats 1115

effects on brain amines, rats 3369

effects on corticosteroids plasma levels, mice 1117

effects on corticosterone plasma levels, mice 1921

effects on corticosterone plasma levels, rats 4167

effects on drinking behavior, rats 905

effects on plasma corticosterone, catecholamines, rats 2236

emotional behavior, delayed response, self-stimulation, septum, cats 1106

endorphins, enkephalins effects on 778

environmental effects, population structure, castes, *Formica obscuripes* 457

enzymes, serum levels, halothane, correlation, pigs 1118

fear conditioning, effects on heart rate, monkeys 2229

handling effects on, activity patterns, pigs 3368

heart rate, measuring techniques, livestock, cattle 4481

hormones, corticosterone, plasma level, tissues distribution, rats 1119

isolation, effects on open-field behavior, mice 1622

learned helplessness, nortriptyline effects on, mice 4288

markers, nasal saddles, winter, *Anas platyrhynchos* 1107

metabolic rate, sheltering behavior, summer, *Setonix brachyurus* 2857

mucus secretions, conspecifics, aversion, *Lehmannia valentiana* 1529

open-field behavior, activity patterns, rats 4483

open-field behavior, selection, noradrenaline, sympathetic nervous system, rats 3147

predators effects on, *Saimiri*, *Constrictor constrictor* 2240

prenatal experience, effects on social behavior, sheep 1620

restoration, schedule effects on hormones levels, rats 1116

shock, analgesia, rats 4477

shock, effects on plasma levels, adrenaline, rats 3366

shock, grooming, rats 2238

sleep (REM), EEG, rats 3110

social environment, effects on escape behavior, mice 2237

tail pinch, effects on feeding behavior, rats 4478

tail-pinch, effects on hyperphagia, activity patterns, rats 3367

tonic immobility, sex hormones, age effects, behavioral genetics, *Sylvilagus floridanus* 788

transport, environmental effects, horses 1121

visual deprivation, polypeptides, plasma corticosterone, chickens 1120

Stria terminalis.

lesions, conditioned response, taste aversion, retention, rats 2021

Striate cortex.

acetylcholine, choline, levels, biosynthesis, avoidance learning, rats 4179

dopamine metabolism, avoidance learning, rats 4214

effluent pathway, regulation, opiates receptors, substantia nigra par reticulata, rats 4162

intracranial chemical stimulation, dopamine, effects on stereotyped behavior, rats 1019

lesions, effects on intracranial self-stimulation, substantia nigra, tegmentum, rats 4258

lesions, effects on locomotor activity, mice 957

lesions, neurons, substantia nigra, sensitivity, neurotransmitters, rats 3157

Striate cortex, (continued)

lesions, visual discrimination, monkeys 3209

neurophysiology, conditioned response, locomotor activity, rabbits 3172

orientation selectivity, stimulus contrast, cats 3128

synaptic membranes proteins, problem solving, rats 4171

Stridulation.

auditory communication, *Xanthippus corallipes* 19

calling behavior, courtship, males, *Lygrocus diffusus* 1250

courtship, mounting behavior, copulation, *Palmaconax nana* 2400

defense mechanisms, disturbance effects on, *Megaloblatta blaberodes* 2316

sound production (biological), workers, *Leptothorax muscorum* 1131

sound production, communication, acoustics, *Corixidae* 3381

sound production, *Eupholioptera chabreni eprocta* 3391

Stridulatory apparatus.

auditory communication, *Xanthippus corallipes* 19

Strix aluco.

visual perception, eye, functional morphology 4084

Strongylocentrotus.

food organisms, diets, *Cancer irroratus*, Canada, Nova Scotia Coast 2605

Structure.

brain, emotional behavior 1975

nests, thermoregulatory behavior, *Trigona denotii* 1537

webs, predatory behavior, aquatic environment, *Wendigiana* 1395

webs, stabilimenta, defense mechanisms, *Argiope aurantia*, *Argiope trifasciata* 1525

Structure-activity relationships.

angiotensin, drinking behavior, water intake, rats 4156

β -endorphin, shock responsiveness, rats 2000

Struthidea cinerea.

predation, eggs, interspecific relationships, nests, *Grallina cyanoleuca*, Australia 3724

Strychnine.

drug effects, avoidance behavior, memory, rats 974

Strychnine sulfate.

effects on memory, avoidance learning, rats 1819

Sturnella magna.

intraspecific relationships, territorial behavior, song 2355

Sturnella neglecta.

intraspecific relationships, territorial behavior, song 2355

Sturnus vulgaris.

aggression, aggressive behavior, intraspecific relationships, activity patterns, sex differences 62

cleaning behavior, seasonal variations 2848

discrimination learning, visual discrimination, color 2966

feeding behavior, habitat preferences, Canada, Ontario 1564

habitat preferences, nest building, urban environment 174

parental behavior, breeding success, pollution effects, *Circotrochus* 3586

paternal behavior, incubation delay, cuckoldry defense mechanisms 1514

site selection, roosting behavior, aggregation behavior, seasonal variations 2572

Stylommatophora.

host plants, feeding behavior, habitat 2617

Subordination.

dominance, social rank, feathers color, plumage badge, *Zonotrichia querula* 94

social hierarchy, *Micaia sylvana* 3646

social interactions, territorial behavior, feeding behavior, *Pithys albifrons*, *Pyrgula leucozona* 512

Substantia nigra.

analogs, nucleus tegmenti pedunculo-pontinus, posture, contralateral rotation, Columbia livia 4152

chemical stimuli, effects on stereotyped behavior, rats 3152

dopamine metabolism, avoidance learning, rats 4214

dopamine systems, 3,3',5'-triiodothyronine, effects on synapses function, rats 4350

dopaminergic cell intracranial, recording, brain 2010

ESB, stereotyped behavior, rats 3217

glutamic acid decarboxylase, locomotor activity, kainic acid lesions, caudate putamen, globus pallidus, rats 906

intracranial chemical stimulation, AMPA, lesions, 6-hydroxydopamine, catalepsy, rats 795

intracranial self-stimulation, amphetamine, mechanisms, rats 4269

intracranial self-stimulation, striate cortex lesions effects on, rats 4258

lesions, conditioned response, feeding behavior, defensive behavior, rats 2019

lesions, dopamine levels, effects on intracranial self-stimulation, rats 4243

lesions, dopamine, neurotransmitters, rotation, grafting, adrenal chromaffin cells 896

lesions, drugs, effects on stereotyped behavior, rats 898

lesions, effects on activity patterns, turning, rats 3191

neurons, role, drug effects, food consumption, rats 1988

neurons, sensitivity, neurotransmitters, lesions, striate cortex, rats 3157

par reticulata, opiates receptors, regulation, striate cortex efferent pathway, rats 4162

self-stimulation, amphetamine depression, drug effects, lithium, rats 1003

self-stimulation, intracranial recordings, mapping, rats 916

Substrate preferences.

activity patterns, *Microtus*, *Mus*, *Onychomys*, *Rhabdomys* 1573

burrowing behavior, sheltering behavior, juveniles, *Homarus americanus* 2778

burrowing, orientation, *Ebalia tuberosa* 427

color matching, visual stimuli, polymorphism, *Circotetix rubula rubula* 3051

feeding behavior, environmental factors, comparative studies, *Parus carolinensis*, *Sitta carolinensis*, *Parus bicolor*, *Picoides pubescens* 367

feeding behavior, environmental factors, sex differences, seasonal variations, *Picoides borealis*, USA, South Carolina 366

feeding behavior, geographical variations, stereotyped behavior, *Dendroica pinus*, Bahama Is. 368

locomotion, *Anthozoa* 670

oviposition, *Aedes aegypti* 2417

oviposition, host plants, *Cajanus cajan*, *Melanagromyza obtusa* 2435

oviposition, host plants, *Callosobruchus chinensis*, *Callosobruchus maculatus* 3503

oviposition, host plants, *Sorghum vulgare*, *Atherigona soccata* 3493

oviposition, reproductive behavior, *Menidia menidia*, USA, South Carolina Coast 1294

oviposition, stereotyped behavior, *Acheta domesticus* 3512

oviposition, *Tetrathemis polleni* 2434

- Substrate specificity**, locomotor activity, chemotaxis, *Naegleria gruberi* 630.
- Suckling behavior**, caffeine effects on, juveniles, rats 4309
feeding behavior, obesity, mice 1502
intraorbital nerve, tactile stimuli, neonates, rats 3127.
neonates, neurophysiology, rats 3177.
nursing, maternal behavior, *Rangifer tarandus* pearyi 3598.
olfactory stimuli, mother-offspring interactions, rabbits 3596.
olfactory stimuli role, neonates, pigs 3601
ontogeny, neonates, rats 3602.
rearing, cattle 3354.
self-suckling, females, feral populations, *Capra hircus* 1505.
teats preferences, neonates, pigs 3604.
teats preferences, pigs 207.
- Sucrose**, effects on feeding behavior, *Schistocerca gregaria* 306.
effects on food intake circadian rhythms, diets, rats 3750.
effects on food intake, rats 3746.
external stimuli, suppression, taste perception 4099.
high fat diet, effects on food preferences, rats 1446.
hoarding behavior, *Apis mellifera*, *Apis mellifera adansonii* 1833.
UCS, appetitive conditioning, rats 3939.
- Sucrose solutions**, drinking behavior, naloxone effects on, rats 2133.
- Sugars**, chemotactic response, motility, *Rhizobium leguminosarum* 3029.
chemotaxis, role, membrane potential, *Spizococcus aurantia* 1833.
gustatory stimuli, food preferences, *Camponotus compressus* 3674.
taste aversion learning, gerbils 3926.
- Sula bassana**, cleptoparasitism, feeding behavior, aggressive behavior, *Phalacrocorax carbo*, British Isles, Strathclyde 3864
locomotion, visual perception 3055.
- Sulfanilic acid**, effects on activity patterns, central nervous system development, rats 4311.
- Sulpiride**, drug effects, sexual behavior, estrus cycle, *Rattus rattus* 954.
- Summer**, feeding behavior, diets, *salix*, *Lagopus lagopus* 1474.
- Suncus etruscus**, activity patterns, diurnal variations 494.
- Suncus murinus**, taste preferences, amino acids, feeding behavior, diets 3733.
- Sunlight**, environmental factors, roosting behavior, restlessness, locomotor activity, *Turdus migratorius* 2836
orientation, thermoregulatory behavior, *Frontinella communis* 443.
orientation, thermoregulatory behavior, *Gynaephora rossii* 2808.
- Suppression**, behavioral contrast, septum lesions, rats 887.
cannibalism, infanticide, breeding, gerbils 1350.
electrical stimulation duration, effects on kindling behavior, rats 919.
food intake, drug effects, amphetamines, *Rattus rattus* 2086.
food intake, water intake, drug effects, *Rattus rattus*, 2082.
operant conditioning, shock, acceleration 1640.
phototaxis, host plants olfactory stimuli effects on, *Bombyx mori* 1910.
predatory behavior, food organisms movements effects on, taste aversion learning, *Onchomys leucogaster* 1764.
taste perception, external stimuli, sucrose, sodium chloride 4099.
taste perception, man 4126.
- Suprachiasmatic nuclei**, ablation, effects on circadian rhythms, feeding behavior, rats 4234.
- Suprachiasmatic nucleus**, drug effects, α -bungarotoxin, light effects, pineal gland, enzymatic activity, circadian rhythms, rats 764.
lesions, feeding behavior, circadian rhythms, rats 3204.
- Surface water**, particles, feeding behavior, neophobia, *Podocnemis* 2660.
vibratory stimuli, communication, aquatic animals, reviews, *Gerridae* 2271.
- Surgery**, brain, effects on food consumption, *Labidura riparia* 290.
portal vein, effects on drinking behavior, rats 1961.
restraints, methodology 4421.
- Surveys**, migrations, seasonal variations, Aves, USA, Alaska, Shemya I 656.
- Survival**, activity patterns, breeding success, territorial behavior, *Sceloporus virgatus* 1594.
adaptations, predators, catalepsy, mice 1575.
aggregation, intraspecific relationships, habitat selection, *Clinocottus analis* 2831.
food availability, social hierarchy, juveniles, *Haemotopus ostralegus* 2375.
food organisms, body size effects on, predation, *Olios*, survival 287.
food preferences, habitat preferences, agricultural land, wildlife management, *Perdix perdix* 479.
incubation behavior, brood care, Aves 202.
juveniles, dispersion, parental behavior, brood rearing, *Branta canadensis* 201.
juveniles, environmental factors, *Pygoscelis papua*, Marion Island 160.
larvae, nesting behavior, *Onitis belal*, *Onitis* on 2424.
larvae, oviposition habitat preferences effects on, *Drosophila nigrospiracula*, *Drosophila mettleri* 122.
males offspring, maternal behavior effects on, food availability, *Neotoma floridana* 486.
maternal behavior, ranging behavior, sheep 4457.
migrations, measuring techniques, tagging, marine organisms, *Reptilia* 1087.
migrations, parasites, immunity, *Ancyllostoma caninum*, mice 1125.
parasitoids, effects on hosts behavior, adaptiveness, *Euphydryas phaeton* 451.
parasitoids, effects on hosts behavior, natural selection 2811.
parental behavior, brood care, brood-mixing, *Tadoma tadoma* 2528.
pollution effects, drilling mud, sheltering behavior, feeding, *Homarus americanus* 3767.
rearing, parental behavior, brood care, *Tyto alba* 2535.
reproductive strategy, synchronization, hatching behavior, *Larus atricilla* 2841.
settling behavior, spatial distribution, aggregation, *Pontes pontes* 83.
winter, cold tolerance, thermoregulatory behavior, *Alligator mississippiensis*
- Survival**, (continued) 2819
- Survival value**, aggregates, intraspecific relationships, environmental factors, *Clibanarius digueti*, USA, California Gulf 80.
- Sus**, approach behavior, withdrawal response, reproduction 1100.
- Sus scrofa**, breeding, parturition behavior, reproductive behavior 3558.
home range, seasonal variations, sex differences, USA, Tennessee 485.
introduced species, feeding behavior, food composition, seasonal variations, USA, Tennessee, Great Smoky Mts. 1490.
reproductive behavior, aggressive behavior, pheromones, olfactory communication 3437.
spatial distribution, dominance, social rank 3479.
- Susceptibility**, seizures, weaning, alcohol effects on, mice 2108.
- Swarming**, courtship, sex pheromone, *Diplotax pectoratorius* 2410.
mating behavior, *Culicoides variipennis*, USA, Virginia 2407.
- Swarming behavior**, aggregation pheromone, *Camponotus pennsylvanicus* 3393.
aggression, chemical stimuli, pheromones, workers, *Atta*, *Acromyrmex* 2558.
feeding behavior, chemical stimuli, amino acids, *Eurytemora herdmani*, *Acartia hudsonica* 3774.
flight activity, *Ophrya leucostoma* 3609.
megalopae, *Portunidae*, Curacao Coast 3607.
Odontotermes distans 219.
queens pheromones effects on, *Apis mellifera* 217.
- Sweeteners**, taste discrimination, discrimination learning, rats 3084.
- Swim bladder**, bioacoustics, *Rutilus rutilus* 734.
- Swimming**, activity patterns, circadian rhythms, photoperiods, juveniles, *Oncorhynchus gorbuscha* 756.
activity patterns, environmental effects, *Citharichthys stigmaeus* 1871.
aquatic environment, *Odobenus* 1875.
chemokinesis, *Paramecium* 2993.
escape behavior, antidepressants effects on, tonic immobility, rats 2094.
hyperactivity, diurnal variations, pollution effects, DDT, *Platichthys flesus*, Baltic 511.
locomotion, activity patterns, *Oxytricha bifaria* 3028.
locomotor activity, feeding behavior, respiration, controlled conditions, *Brevortia tyrannus* 346.
motor activity, cortex ablation, environmental effects, rats 2029.
neurophysiology, embryos, *Xenopus laevis* 3139.
orientation, visual stimuli, navigation behavior, *Aplysia brasiliana* 631.
sleep, EKG, EEG, *Phocoena phocoena* 3109.
- Swimming behavior**, activity patterns, *Ensisfera* 3037.
activity patterns, environmental effects, *Citharichthys stigmaeus* 1871.
aggregation behavior, *Lissodelphus peronii*, Marion Islands, Benguela current 1569.
chemotaxis, chemical stimuli, *Bacillus subtilis* 4032.
development, embryos, *Echinoidea* 672.
development, embryos, *Hemicentrotus pulcherrimus* 3032.
development, paint thinner intrauterine exposure effects on, rats 1607.
feeding behavior, lateral line, *Aplocheilichthys lineatus* 3687.
feeding behavior, *Proscodactyla flavicirrata*, *Stomatoca atra*, *Phalidium gregarium*, *Polyorchis penicillatus* 2626.
larvae, *Engraulis mordax* 3042.
locomotor activity, rhythms, *Sarsia tubulosa* 4129.
naloxone, intrauterine exposure effects on, rats 3249.
ontogeny, *Clupea harengus pallasi* 3044.
ontogeny, neonates, dopamine effects on, rats 526.
orientation, sense organs, direction finding, waves, *Aplysia brasiliana* 632.
paint thinner intrauterine exposure effects on, rats 1607.
pollution effects, oil spills, *Oryzomys plausirus* 2855.
sewage sludge effects on, crop fields, *Microtus pennsylvanicus* 2842.
sleep (REM) deprivation effects on, rats 1945.
telemetry, monitoring, *Salmo trutta* 693.
training, metabolism, *Xenopus laevis* 691.
ultrasounds, telemetry, electronic equipment, *Pisces* 4424.
ventilatory behavior, larvae, *Engraulis mordax* 2834.
vertical migrations, water temperature effects on, *Daphnia* 3773.
water flow velocity, horizontal distribution, juveniles, *Salmo trutta*, *Salmo salar* 469.
- Synchronization**, molting behavior, chemical communication, juveniles, *Macrobrachium rosenbergii* 2.
- Syndacarb**, avoidance behavior, 5-hydroxytryptophan, rats 4382.
- Sylvia atricapilla**, migrations, body weight, overwintering, Tunisia 4052.
migrations, orientation, magnetic fields 3014.
- Sylvilagus floridanus**, behavioral genetics, sex hormones, age effects, stress, tonic immobility 788.
- Sylvisorex megalura**, activity patterns, diurnal variations 494.
- Symbiosis**, cleaning behavior, *Atherinops affinis*, *Eschrichtius robustus*, Mexico, Baja California 421.
cleaning behavior, *Atherinops affinis*, *Eschrichtius robustus* 1452.
territorial behavior, feeding behavior, *Pisces*, coral reefs 2350.
- Symbols**, communication, language, *Pan troglodytes* 50.
- Sympathetic nervous system**, noradrenaline, stress, selection, rats 3147.
- Sympatric populations**, competition, foraging behavior, resource partitioning, *Androparus latirostris*, *Blepietia eximia* 2687.
electric communication, species diversity, *Mormyridae*, Gabon, Ivindo R. 3398.
feeding behavior, aggressive behavior, growth, *Salmo gairdneri*, *Salmo clarki* 2321.
feeding behavior, food preferences, *Pygoscelis*, Antarctica, King George I. 355.
habitat preferences, activity patterns, separation, forests, *Peromyscus*

Sympatric populations, (continued)

- maniculatus, *Clethrionomys gapperi*, *Napaeozapus insignis* 488
interspecific relationships, auditory communication, auditory discrimination, mating behavior, *Hyperolius* 1153.
interspecific relationships, sexual behavior, *Megarhyssa* 126
isolation, dimorphism, sexual behavior, courtship, *Aechmophorus occidentalis* 172
Oryzomys palustris activity patterns effects on nesting behavior, *Annonospiza manitima* 420
reproductive isolation, acoustic communication, *Schizocosa ocreata*, *Schizocosa roseni* 1127.
reproductive isolation, communication role, *Rodentia* 3429.
reproductive isolation, mating behavior, *Ostrinia* 2422
reproductive isolation, reproductive behavior, auditory communication, *Tympanuchus cupido*, *Pedcoetes phasianellus* 2268
resource utilization, activity patterns, feeding behavior, *Leptomyrmex* 1549
social organization, feeding behavior, problem solving, *Saimiri sciureus*.
Callicebus moloch 4018
spatial distribution, resting behavior, *Limax* 1216
speciation, behavior effects on, *Drosophila heteroneura*, *Drosophila silvestris* 446.
- Symphalangus syndactylus**, vocalization behavior, reinforcement, tapes 1185
- Synanthedon myopaeformis**, flight activity, diurnal variations 684.
- Synapses**, 3,3',5-truodothyronine effects on function, limbic system, substantia nigra, dopamine systems, rats 4350
- Synaptic membranes**, proteins, striate cortex, cortex (prefrontal), cortex (visual), problem solving, rats 4171
- Synchronization**, hatching behavior, survival, reproductive strategy, *Larus atricilla* 2841
oviposition, reproductive behavior, breeding success, *Rana sylvatica* 3525
- Synergism**, alcohol- α -amphetamine effects on motor activity, rats 3234
heart rate, vagal cardiac neuro, cardiac conditioning, neurophysiology, associative learning, visual evoked response, pigeons 1981
neurophysiology, motor activity, dentate nucleus, baboons 871
- Synoea sariniana**, colonial characteristics, nest building 2783
nests, communication, social behavior 2254
- Synoea virginea**, sound production (biological), nests, defense mechanisms 1554
- Syringes**, drug self-administration, methodology, rats 1091
- Syrphidae**, migrations, autumn, range, Switzerland 4038
migrations, flight, capture-recapture studies, Switzerland 4039
predator-prey interactions, anti-predator behavior, *Schizolachnus pineti* 3782
- Systematics**, use, display, courtship, agonistic behavior, *Salticidae* 3378
- Tabanidae**, drinking behavior, flight 2641
interspecific relationships, avoidance behavior, horses 2208
- Tachinomyia**, traps, catches, oviposition 109
- Tactile discrimination**, matching, enhancement, CS, tactile perception 4125
sex, interspecific relationships, *Notonecta alauca* 105
tactile perception, man 1925
- Tactile discrimination learning**, recovery of function, cortex (sensorimotor) lesions, rats 4239
- Tactile perception**, CS, matching, enhancement 4125
external stimuli, temperature 4094
Galemys pyrenaeus, object detection 3087
mechanoreceptors, skin, man 4127.
skin, distance location 4096
tactile discrimination, man 1925
temperature effects on, roughness 4097
tongue, interaction, auditory stimuli, man 4124
- Tactile stimuli**, conspecifics recognition, mating behavior, *Enallagma* 2432
neurons, escape behavior, *Pulmonata* 3136
predatory behavior, prey acquisition, *Rana pipiens* 1448
prey acquisition, lesions, optic tectum, *Rana pipiens* 2012.
reactivity, handling effects on, rats 3086
role, mating behavior, courtship, *Chrysopa perla* 2401
role, nursing, juveniles, rats 1352
startle response, drug effects, caffeine, rats 2144.
suckling behavior, infraorbital nerve, neonates, rats 3127.
- Tadarida aegyptiaca thomasi**, feeding behavior, diets, *Insecta* 2744
- Tadarida brasiliensis mexicana**, movements, migrations, olfaction 4061.
- Tadorna tadorna**, parental behavior, brood care, brood-mixing, survival 2528.
seasonal variations, diets, predation, food selection, British Isles, Scotland 353.
seasonal variations, diets, predation, *Hydrobia* 352.
- Taeniolopoda eque**, defense reactions, composition, sex pheromone, mating behavior 2266.
- Taeniopygia guttata**, calling behavior, song, motivation 1172.
- Taeniopygia guttata castanotis**, hormones, effects on song, females 3415.
- Taftsis**, psychotropic drugs, side effects, mice, rats 975.
- Taggings**, measuring techniques, survival, migrations, marine organisms, *Reptilia* 1087.
remote sensing, methodology, reproductive behavior, migrations, *Zenaida macroura* 1089.
- Tail pinch**, effects on emotional behavior, feeding behavior, rats 4463
- Tail-flick response**, dopamine, spinal cord, rats 4161
- Tail-pinch behavior**, methodology, rats 4431
- Tails**, mechanical stimuli, effects on feeding behavior, rats 405
neurophysiology, escape behavior, *Lumbricus terrestris* 1976.
- Talitridae**, orientation, flight activity, littoral zone, inheritance 2995
- Talitrus saltator**, orientation, habitat, littoral zone 2996
orientation, solar orientation, lunar orientation 1832
- Talpa europaea**, association, feeding behavior, *Turdus merula*, *Enthacus rubecula* 2599.
feeding behavior, leaf litter, association, *Turdus philomelos* 2600.
- Tamias striatus**, conspecific odors, recognition, chemical communication, social behavior 3425.
feeding behavior, hoarding behavior, scatterboarding 1492.
food availability effects on spatial distribution, population studies 2366.
territorial behavior, habitat utilization, home range, competition 1223.
- Tamiasciurus douglassii**, mating behavior, territorial behavior, breeding success 3557.
- Tamiasciurus hudsonicus**, diel activity, sex differences, Canada, British Columbia 2860
social behavior, exploratory behavior, ontogeny 520.
- Tandanus tandanus**, spawning, reproductive behavior 2450.
- Tanypyrinus moedoides**, nesting behavior, biology, nest building 1247.
- Tapbozous melanopogon**, lithium chloride, effects on circadian rhythms, flight activity 4367.
- Tapinoma erraticum**, social organization, trophallaxis, nest provisioning, brood care, environmental effects 2559
- Tapinoma sessile**, nesting behavior, colonial characteristics, movements 2436.
- Taste**, sound, shock, associative learning, cues, avoidance learning, rats 1750.
- Taste aversion**, amygdala, cortex lesions effects on, rats 2027.
avoidance learning, toxins, guinea-pigs 1737.
conditioned response, age, sex differences, acquisition, retention, rats 2955.
conditioned response, extinction, subdiaphragmatic vagus, rats 4154
conditioned response, food intake, triglycerides infusion, satiety, rats 3759.
conditioned response, intracranial self-stimulation, lithium chloride, rats 4115.
conditioned response, retention, lesions, stria terminalis, cortex (gustatory), rats 2021.
conditioned response, saccharin, drug effects, bombesin, rats 977.
conspecifics, adaptiveness, rats 2735.
3,5-dimethyl-4-(methylthio) phenol methylcarbamate, pest control, crop fields, Aves 4445
drug effects, barbiturates, lithium chloride, *Rattus rattus* 962.
drug effects, morphine, lesions, periaqueductal grey area, rats 3186.
drug effects, 5-hydroxytryptamine, rats 2141
induction, toxicity, trichloromethane, mice 4321.
neophobia, rats, guinea-pigs, gerbils 3961
operant conditioning, operant response, conditioned reinforcement, rats 546.
phenylethylamine effects on, rats 2117.
tetrahydrocannabinol effects on, rats 963.
- Taste aversion conditioning**, avoidance learning, *Macaca fuscata* 2958
- Taste aversion learning**, antidepressants effects on, olfactory bulb ablation, rats 3264.
area postrema lesions effects on, rats 568
avoidance behavior, drug effects, rats 3281.
chemical stimuli, trimethyltin, triethyltin, rats 3964
chloridform, rats 1724
chlorpromazine, lithium effects on, rats 4338
cocaine, apomorphine effects on, rats 2101
cocaine, rats 1763
conditioned response, interference, rats 1765.
conditioning, reinforcement schedules, 3953
context dependency, novelty, rats 2956.
diets, *Dipodomys merriami*, *Dipodomys microps* 3982.
discrimination learning, drugs, rats 3960
early experience effects on, nutrient deficiency, iron, rats 519.
extinction, age effects, mice 1631.
flavor toxicosis, rats 3981
gustatory stimuli, dl-cathinone, rats 3962
heroin, morphine effects on, rats 2116
lithium chloride, Δ^9 -tetrahydrocannabinol effects on, pigeons 1719.
lithium chloride, food organisms, *Bufo americanus* 2947.
lithium chloride, rats 2953
maze learning, preferences, delayed response, rats 551.
maze learning, rats 1794
methyl bromide, toxicity testing, rats 3965.
morphine, post-conditioning exposure effects on retention, rats 3979.
novelty, rats 2952.
nutrient deficiency, thiamine, associative learning, rats 1756.
nutrient deficiency, thiamine, toxicosis, atropine, lithium, recovery, rats 1727.
obesity, mice 1767.
odors effects on, overshadowing, rats 3983.
operant conditioning, quality-quantity interaction, rats 1726.
palatability, consummatory behavior, insulin, rats 1510.
performance, age effects on, preexposure, rats 3984.
poisoned partner effect, anosmia, rats 3956.
poisoned partner effect, rats 3958.
polydipsia, reinforcement schedules, rats 1748.
potentiation, rats 3986.
predatory behavior suppression, food organisms movements, *Onchomys leucogaster* 1764
preexposure, novelty, avoidance learning, rats 1768.
reinforcement devaluation, operant conditioning, rats 3951.
reinforcement schedules, sensitivity, insensitivity, polydipsia, rats 1747.

- Taste aversion learning, (continued)**
 reinforcement schedules, shock 1715.
 reinforcement schedules, shock 1725.
 reinstatement, rats 2954.
 retention, dogs 570.
 retention, memory, CS, UCS, rats 1736.
 saccharin, memory inhibition, cycloheximide effects on, rats 4153.
 sugars, gerbils 3926.
 taste perception development, rats 738.
 toxicity testing, phosostigmine, rats 4320.
 UCS preexposure, blocking, rats 3957.
 zinc phosphide, bait shyness, Rodentia 3959.
- Taste discrimination,**
 development, taste aversion learning, rats 738
 discrimination learning, reversal learning, rats 592.
 discrimination learning, sweeteners, rats 3084
- Taste perception,**
 external stimuli, sucrose, sodium chloride, suppression 4099
 feeding behavior, zona incerta lesions effects on, rats 4235
 food intake, hypothalamus (ventromedial) lesions effects on, rats 4221.
 food preferences, food plants, chemical stimuli, *Sciurus aberti*, *Pinus ponderosa* 392
 gustatory stimuli, sensitivity, neurons, solitary tract nucleus, hamsters 4120.
 neurons, chemotactants, *Cyprinus* 924
 palatability, food intake, area postrema lesions effects on, rats 893.
 sensitivity, visual stimuli, light effects on 1900
 suppression, man 4126.
 taste aversion learning, rats 738.
 taste aversion learning, sugars, gerbils 3926.
 taste preferences, neospiridin dihydrochalcone, electrophysiological recording, rats, baboons 4093
 taste thresholds, reaction time, man 4123.
- Taste preferences,**
 amino acids, feeding behavior, diets, *Suncus murinus* 3733.
 appetitive conditioning, satiety effects on, rats 3923.
 conditioned response, intracranial self-stimulation, lithium chloride, rats 4115.
 drinking behavior, portal vein surgery effects on, rats 1961.
 drug effects, pimozone, attenuation, self-stimulation, rats 2147.
 electrophysiological recording, neospiridin dihydrochalcone, rats, baboons 4093.
 feeding behavior, obesity, dogs, rats 1917.
 food deprivation, rats 3925.
 hedonic response, flavor-flavor associations, rats 3924
 inheritance, genetic analysis, chickens 3847.
- Taste thresholds,**
 taste perception, reaction time, man 4123.
- Tatera ladia ladica,**
 taste aversion learning, zinc phosphide, bait shyness 3959.
- Taurotragus oryx,**
 social structure, social behavior, seasonal variations 2584
- Taurulus bubalis,**
 behavior, emergence, environmental conditions, oxygen depletion 468.
- Taurota onitis,**
 sexual behavior, courtship, sex ratio, environmental factors, spawning 156.
- Tautoglabrus adspersus,**
 spawning behavior, courtship, Canada, Newfoundland, Bonne Bay 153.
- Taxidea taxus,**
 predators, effects on colonies, *Cynomys leucurus*, *Cynomys ludovicianus* 1371.
- Taxis,**
 orientation, magnetic fields, bacteria 2992.
- Teats,**
 preferences, suckling behavior, neonates, pigs 3604.
 preferences, suckling behavior, pigs 207.
- Tectum,**
 lesions, effects on maze learning, rats 3185.
- Teeth,**
 anterior dental microwear, diets, feeding behavior, *Pan troglodytes troglodytes*, *Gorilla gorilla gorilla*, *Papio hamadryas* 4437
 functional morphology, aggressive behavior, males, *Babryrousa babryrussa* 67
- Tegmentum,**
 connections, lesions, effects on avoidance learning, rats 2024.
 dopaminergic cell intracranial, recording, brain 2010.
 intracranial self-stimulation, drug self-administration, morphine, mediation, rats 3273
 intracranial self-stimulation, striate cortex lesions effects on, rats 4258.
 neurons, electrophysiological recording, self-stimulation, rats 4157.
- Tegula pallio,**
 anti-predator behavior, escape behavior, *Pisaster giganteus* 2619.
- Telemetry,**
 electrical stimulation, behavior monitoring, electronic equipment, Primates 4440.
 electrophysiological recording methodology, amygdala, hippocampus, sexual behavior, rats 42121.
 monitoring, swimming behavior, *Salmo trutta* 693.
 radio-tagging, electronic equipment, tracking, activity patterns, wildlife 4429.
 ultrasonics, electronic equipment, swimming behavior, Pisces 4424.
- Telencephalon,**
 ablation, effects on escape learning, embryos, ducks 563.
 ablation, habituation, heart arousal response, *Carassius auratus* 3118.
 lesions, effects on arousal, habituation, *Rutilus rutilus* 3182.
 lesions, effects on motor activity, metabolism, rats 912.
 lesions, operant response, feeding behavior, pigeons 2013.
 Wulst ablation, interocular transfer, visual discrimination, pigeons 4220.
- Teleogryllus commodus,**
 mating effects on females locomotion, sexual behavior 1292.
- Teleogryllus oceanicus,**
 aggressive behavior, social hierarchy, dominance 2370.
 social behavior, aggregation behavior, phonotaxis, song 3463.
- Teleostei,**
 auditory perception, auditory stimuli 3073.
 feeding behavior, food composition, diurnal variations, Madagascar 1473.
 hormones, regulation, reproductive behavior, reviews 4399.
 parental behavior, phylogeny 1345.
 parental behavior, sex differences, evolution 2515.
 schooling behavior, communication, chemoreception 2285.
 visual perception, light, polarization 715.
- Tellina tenuis,**
 predator-prey relationships, *Polinices alderi* 282.
- Temperature,**
 acclimation, environmental effects, feeding, *Cryptotermes* 2794.
 effects on activity patterns, circadian rhythms, *Phyllostomus discolor*, *Molossus ater* 3092.
 effects on activity patterns, *Crangon crangon* 2775.
 effects on avoidance learning, mice 3973.
 effects on courtship, *Poecilia reticulata* 3529.
 effects on food intake, early experience, rats 3749.
 effects on host searching behavior, host plants, *Cydia pomonella* 3786.
 effects on migrations timing, *Pringilla montifringilla* 3012.
 effects on sexual behavior, *Amyelois transistella* 2413.
 effects on tactile perception, roughness 4097.
 effects on ionic immobility, *Rana temporaria* 4484.
 environmental effects, resting behavior, diurnal variations, physical activity, *Diptera* 2787.
 environmental factors, flight activity, wind, food, *Schistocerca gregaria* 1861
 external stimuli, tactile perception 4094.
 factors affecting, host searching behavior, *Neoleptana carpocapsae* 3776.
 sexual reproduction, hibernation, annual cycles, rhythms, *Eutamias amoenus*, *Eutamias minimus* 3102.
- Temperature effects,**
 activity patterns, burrowing behavior, diurnal variations, *Bufo americanus*, Canada 1558
 activity patterns, seasonal variations, *Rattus fuscipes* 482.
 activity patterns, thermoregulatory behavior, *Testudo graeca* 462.
 aggregation behavior, movements, *Parus caeruleus* 229.
 alarm pheromone response, *Apis mellifera* 1129.
 body temperature, morphine, norepinephrine, naloxone, rats 1001.
 clonidine, effects on locomotor activity, rats 698
 diurnal variations, vertical migrations, marine fauna, *Xiphias gladius* 471.
 feeding behavior, food intake, humidity, heat, chickens, egg laying 1597.
 flight activity, *Anisoptera* 1870.
 flight activity, *Lepidoptera* 1866.
 heat transfer, hypothalamus, brain, thermoregulation, *Colinus virginianus* 781.
 life history, breeding, *Capimulus europaeus* 175.
 locomotor activity circadian rhythms, *Hemideina thoracica* 750.
 mating behavior, *Cnaphalocrocis medialis* 132.
 mating behavior, feeding behavior, *Stomoxys calcitrans* 447.
 mating behavior, females calling behavior, males response, *Chilo suppressalis* 1287.
 metabolism, thermoregulatory behavior, *Aotus trivirgatus* 497.
 nest building, oviposition, *Dendroctonus frontalis* 1263.
 swimming behavior, water flow velocity, juveniles, *Salmo trutta*, *Salmo salar* 469.
 thermoregulatory behavior, posture, pigs 495.
 trail following behavior, *Indomymex purpureus*, Australia 1553.
 vertical migrations, juveniles, *Melodogyne* 621.
 weather, flight activity, *Dendroctonus frontalis* 455.
- Temperature perception,**
 consummatory behavior, lead effects on, parasites, mice 413.
- Temperature preferences,**
 behavior, *Emnecanthus gloriosus* 464.
 equipment, measuring techniques, *Corophium volutator* 430.
 feeding behavior, developmental stages, *Crocodylus novaeguineae* 458.
 melanin injection effects on thermoregulatory behavior, *Terrapene carolina trungrui* 1561.
 migrations, reproductive behavior, *Pardosa laura* 2991.
 power plants thermal effluents, *Perca flavescens*, USA, Mississippi R. 2825.
 statistical analysis, acclimation, *Onconotus obscurus* 2769.
 thermoregulatory behavior, *Notropis lutrensis* 2827.
 thermoregulatory behavior, Pisces 1563.
- Temperature tolerance,**
 acclimation, habitat preferences, *Cryptotermes* 456.
 thermoregulatory behavior, Pisces, Indo-Pacific region 1562.
- Temperure,**
 stimuli, skin, electronic equipment, methodology 1073.
- Temporal discrimination,**
 classical conditioning, rats 2939.
 endogenous stimuli, memory, rats 1826.
 reinforcement schedules, deprivation, water, food, pigeons 1667.
 reinforcement schedules, monkeys 2976.
 reinforcement schedules, rats 2975.
- Temporal discrimination learning,**
 chain schedule, stimulus control, rats 4010.
- Temporal perception,**
 avoidance behavior, shock, reinforcement, rats 1741.
 discrimination learning, cross-modal transfer learning, rats 2972.
 multiple schedule, conditioned response, pigeons 1758.
 short term memory, variable interval schedule, matching-to-sample, pigeons 1813.
 solvents, effects on, locomotor activity, operant conditioning, rats 514.
- Temporal variations,**
 activity patterns, time budgeting, feeding behavior, resting behavior, *Colobus badius rufonitratus*, Kenya, Tana R. 517.
 birth, social rank, breeding success, *Macaca mulatta* 3484.
 territory, foraging behavior, *Myrmecocystus mimicus* 1418.
- Tenebrio molitor,**
 mating behavior, males, females attractancy, age 3499.
 visual evoked response, head movements, nystagmus 705.
- Teratology,**
 activity patterns, alcohol effects on, prenatal experience, rats 1610.
- Terminology,**
 schedule-induced behavior, reinforcement schedules 2247.
- Termitaria,**
 nest building (non-reproductive), workers, *Apicotermes lamani* 2565.
- Terrapene carolina triunguis,**
 melanin injection effects on thermoregulatory behavior 1561.
- Terrestrial environments,**
 walking, *Odobenus* 1875.
- Terrestrial behavior,**
 activity patterns, diel variations, *Larus californicus*, *Larus delawarensis* 88.
 activity patterns, *Salmo trutta* 694.
 aggregation, *Malurus splendens* 234.
 aggression, sex differences, *Larus delawarensis*, USA, Michigan 2325.
 aggressive behavior, breeding status effects on, *Meriones unguiculatus* 1336.
 aggressive behavior, *Cordulegaster boltoni*, Germany, Fed. Rep., *Fichtelgebirge*

Territorial behavior, (continued)

- 3465
aggressive behavior, scent marking behavior, *Polistes nimpha* 2345
aggressive behavior, testosterone effects on, *Microtus townsendii* 3476
arousal, vocalization behavior, song, interspecific relationships, *Agelaius phoeniceus* 223
auditory discrimination, song, *Agelaius phoeniceus* 3414
behavioral genetics, maternal effects, *Salvelinus fontinalis*, *Salvelinus namaycush* 2882
breeding sites, environmental factors, *Haematopus ostralegus*, Netherlands, Vlieland I 161
breeding success, activity patterns, *Sceloporus virgatus* 1594
breeding success, mate selection, nests, courtship interference, *Gasterosteus aculeatus* 3528
breeding success, nesting behavior, artificial substrates effects on, *Corvus monedula* 2460
breeding success, song, *Vireo olivaceus* 2294
breeding, wildlife management, *Odocoileus virginianus* 2488
colonies formation, breeding, *Larus nidihundus* 3470
colonies, *Larus nidihundus* 3469
competition, mathematical models 2344
conspecifics recognition, pheromones, aggressive behavior, *Plethodon cinereus* 2320
copulation burrows, nests, body size, males, *Ocyrops ceratophthalmus* 2383
courtship, vocalization behavior, song, *Seiurus aurocapillus* 41
defensive behavior, *Zonotrichia albicollis* 2361
dominance, habitat, mangrove swamps, *Periophthalmus*, *Periophthalmodon* Schlossen 2352
dispersal, *Catoptryx cornelia*, Japan, Fukuoka, Muroi R 3464
feeding behavior, diets, coral reefs, Pisces, Japan Coast 1461
feeding behavior, food availability, *Anthochaera canaliculata*, Australia 1476
feeding behavior, social interactions, subordination, *Pynglena leucosticta*, pithys alifrons 512
feeding, habitat utilization, *Kobus ellipsiprymnus*, Zimbabwe 1370
food availability, competition, *Avahi laniger* 92
food availability, competition, *Phylloscopus trochiloides*, India 87
food availability, juveniles, *Oncortynchus kusich*, Canada 1221
food availability, *Megaceryle alcyon* 3471
food availability, population density, *Agelopsis aperta* 1218
food availability, population density, *Cercopithecus aethiops tantalus*, Cameroon 91
food sources, *Eupomacentrus dorsopunicans* 2351
foraging behavior, food availability, *Anas platyrhynchos* 3711
habitat preferences, physical properties, vegetation patterns, *Dendragapus obscurus* 2360
habitat selection, ecological distribution, *Labrisomidae filamentosus*, Barbados 466
habitat utilization, home range, competition, *Tamias striatus* 1223
habitat utilization, population density, *Alactagulus acroton*, USSR, Kazakhstan 3473
boarding behavior, aggression, *Sitta europaea*, *Parus palustris* 2701
home range, breeding, *Ficedula hypoleuca* 2843
home range, habitat utilization, social organization, dominance, *Uta stansburiana* 1220
home range, movements, *Ochotona princeps* 3830
home range, seasonal variations, radio-tagging, *Capeleus capreolus* 2365
home range, social behavior, energetics, *Anolis* 2348
homing behavior, ponds, *Notophthalmus viridescens* 2347
interspecific relationships, *Mirounga leonina*, *Arctiophthalmus pusillus*, Namibia, Van Reenen Bay 480
interspecific relationships, silk repellents, *Dictyna*, Mallos 1361
intraspecific relationships, odors response, sex differences, *Meriones unguiculatus* 1175
intraspecific relationships, social behavior, aggression, *Muscicapa nigrorufa*, India 231
lek behavior, males, *Pediceetes phasianellus* 2358
males, maturation, feathers, *Setophaga ruticilla* 513
mate selection, assortative mating, *Agelaius phoeniceus* 1303
mating behavior, breeding success, *Tamiasciurus douglasii* 3557
mating behavior, *Grus canadensis tabida* 2477
mating behavior, *Halichoeres maculipinnis*, *Halichoeres garnoti*, Panama Coast 341
mating behavior, oviposition, *Platycephalus caligatus* 3505
mating behavior, polygyny, breeding success, *Agelaius phoeniceus* 3539
movements, predatory behavior, *Canis lupus*, USA, Minnesota 2474
nesting behavior, *Agelaius phoeniceus*, USA, Minnesota 2474
nesting behavior, breeding success, *Larus marinus* 3585
nesting behavior, mating behavior, *Agelaius phoeniceus* 1311
nesting behavior, *Philanthus barbatus* 3611
nests, males, *Oxybelus sericeus* 1543
parental behavior, food availability, *Oenanthe oenanthe*, British Isles, Wales 1347
Pipilo ocai, *Pipilo erythrophthalmus*, *Atlapetes brunneinucha*, *Atlapetes pileatus* 2354
population structure, breeding success, *Zonotrichia leucophrys nuttalli* 2357
population structure, limiting factors, *Enhydra lutris*, USA, California 2364
protection, females, copulation, mating behavior, *Hetaerina vulnerata* 2399
reproductive behavior, agonistic behavior, *Canis lupus*, Canada, Alberta 3475
reproductive behavior, *Anthidium manicatum* 86
reproductive behavior, *Oreoscoptes montanus*, *Amphispiza belli*, Spizella breweri, USA, Idaho 2465
reproductive behavior, salt marshes, *Catoprophorus semipalmatus*, USA, Virginia Coast 2573
reproductive status effects on, *Troglodytes troglodytes* 2363
Rhinoscerus unicornis, Nepal, Chitawan Valley 3826
scent marking behavior, home range, *Martes martes* 3480
scent marking behavior, *Litocranius walleri* 3478
size effects on, mating behavior, *Scathophaga stercoraria* 127
social behavior, breeding, *Oenanthe isabellina* 3622
social behavior, intruder, *Saguinus oedipus oedipus*, *Saguinus fuscicollis* 1384
social behavior, marine environment, environmental conditions, ice, *Phoca hispida*, Baffin I. 484
social interactions, carnivores, resource exploitation, mathematical models, predator-prey interactions 1068
social organization, breeding success, *Passerina cyanea* 2292

Territorial behavior, (continued)

- social organization, *Canis latrans*, Canada 3836
social organization, home range, *Mus musculus*, New Zealand 1225
social organization, home range, population density, *Eremias grammica* 3468
social organization, sexual behavior, mice 2585
social organization, spawning behavior, *Dendrochirus zebra*, Japan, Izu I. 228
social spacing, vocalization behavior, *Callicebus moloch* 3481
song, defensive behavior, *Agelaius phoeniceus* 2362
song, *Fringilla coelebs* 3405
song, interspecific relationships, *Fringilla coelebs*, *Parus major* 2290
song, *Sturmella magna*, *Sturmella neglecta* 2355
song, vocalization behavior, horizontal distribution, distance, *Luscinia megarhynchos* 232
spatial distribution, aggregation, *Melanerpes formicivorus* 2359
spatial distribution, burrows, reproductive strategy, *Thomomys bottae* 2368
spatial distribution, foraging behavior, colonies, *Pogonomys badius* 1424
spatial distribution, social organization, colonies, *Merops bullockoides* 3472
spatial distribution, winter, *Cinclus pallasi* 2356
spawning behavior, nest building, *Colisa chuna* 3527
spawning, mating behavior, *Ctenopoma* 2455
symbiosis, feeding behavior, Pisces, coral reefs 2350
Vanessa atalanta 2346
vocalization behavior, colonial characteristics, *Arctiocephalus australis* 2901
vocalization behavior, *Vireo griseus* 1157
Territoriality
evolution, interspecific relationships, aggression, natural selection, adaptations 504
Territory
foraging behavior, spatial variations, temporal variations, *Myrmecocystus mimicus* 1418
parental behavior, families, altruism, *Hylobates klossii* 211
Testosterone
aggressive behavior, parental behavior, infanticide suppression, mice 68
aroma, effects on sexual behavior, *Mesocricetus auratus* 186
avoidance learning, pretraining, short term memory, juveniles, chickens 1722
binding, central nervous system, social interactions, aggression, dominance, mice 1943
castration, vocalization behavior, courtship, males, *Streptopelia risoria* 2174
chemoreception, aggressive behavior, males, rats 1184
effects on activity patterns, sex differences, rats 1058
effects on aggressive behavior, fighting, females, mice 2341
effects on aggressive behavior, isolation, mice 2183
effects on aggressive behavior, territorial behavior, *Microtus townsendii* 3476
effects on circadian rhythms, vocalization behavior, locomotor activity, *Coturnix japonica* 3100
effects on fighting, males mice 1207
effects on food intake, rats 4415
effects on learning behavior, memory, juveniles, chickens 3308
effects on olfactory preferences, neophobia, castration, hamsters 2184
effects on play, social behavior, rats 3365
effects on sexual behavior, juveniles, chickens 3309
effects on sexual behavior, males, *Peromyscus maniculatus* 3323
effects on sexual behavior, sound production, *Coturnix japonica* 4401
effects on song, females, *Taeniopygia guttata castaneotis* 3415
effects on visual discrimination learning, memory, chickens 2965
effects on yawning behavior, guinea pigs 1056
implants, hypothalamus, lordosis behavior, females, hamsters 1053
implants, lesions, nucleus intercollicularis, courtship, *Streptopelia risoria* 1317
plasma levels, aggressive behavior, females, horses 4459
plasma levels, fighting effects on, man 2185
plasma levels, social rank, dominance, males, mice 2376
progesterone, fear conditioning, extinction, emotional behavior, rats 1049
septum, effects on sexual behavior, females, rats 4412
sexual behavior, enzymatic activity, 5 β -reductase, *Streptopelia risoria* 1312
sexual behavior, plasma levels, luteinizing hormone, rats 189
Testosterone propionate
steroids, copulation, orienting response, females, *Mesocricetus auratus* 1319
Testudinate
locomotor activity, mechanisms, electrical stimulation, neurons 915
Testudines
feeding behavior, food organisms, *Haliaeetus leucocephalus* 3702
Testudo graeca
thermoregulatory behavior, activity patterns, light effects, temperature effects 462
Testudo hermanni
homing behavior, orientation, olfactory stimuli role 4040
Tethya aurantium
Porifera locomotion, behavior, cytology 3030
Tethya seychellensis
Porifera locomotion, behavior, cytology 3030
3,4,3',4'-Tetrachlorobiphenyl, effects on motor activity, mice 940
Tetracycline
effects on schedule-induced behavior, polydipsia, rats 4336
Tetragnathidae
webs, food organisms escape behavior, *Lepidoptera* 440
Tetrahydro- β -carboline
drug effects, stereotyped behavior, rats 948
Tetrahydrocannabinol
drug effects, conditioned response, avoidance behavior, *Rattus rattus* 965
drug effects, females, environmental effects, hormones, males, mice 2130
effects on matching-to-sample, pigeons 4349
effects on stereotyped behavior, motor activity, rats 4290
effects on taste aversion, rats 963
 Δ^9 -Tetrahydrocannabinol, intracranial self-stimulation, rats 4272
 Δ^9 -Tetrahydrocannabinol, effects on mother-offspring interactions, monkeys 2553
 Δ^8 -Tetrahydrocannabinol, effects on taste aversion learning, pigeons 1719
4,5,6,7-Tetrahydroisoxazolo-[5,4-c]pyridin-3-ol, effects on feeding behavior, rats 4355
4,5,6,7-Tetrahydroisoxazolo-[5,4-c]pyridin-3-ol, effects on dopamine receptors, dopamine, gnawing, mice 952

- Tetrabysses vorax**,
food consumption, electron microscopy 256
- Tetramorium caespitum**,
anti-predator behavior, soil-dropping behavior, Halictidae 3792
soil-dropping behavior, interference competition, *Nomia melanderi* 2805
- Tetramorium lappaceum**,
food sources, recruitment, chemical communication, pheromones 1150
- Tetranaychus urticae**,
prey, kaurenomes, effects on predatory behavior, *Amblyseius fallacis*,
Phytoseiulus macropilis 1901.
- Tetrao urogallus**,
crop content, feeding behavior, seasonal variations, diel variations 2694.
- Tetronidae**,
crop content, feeding behavior, seasonal variations, diel variations 2694.
- Tetrasops tetraopthalmus**,
mate selection, body size, breeding success 2398.
- Tetrasops tetraopthalmus**,
flight, dispersion, measuring techniques 1862
seasonal variations, dispersal, flight activity, USA, Vermont, USA, New Hampshire 681
- Tetrastis bonasia**,
crop content, seasonal variations, diel variations 2694.
- Tetradenia poleni**,
oviposition, substrate preferences 2434.
- Tettigoniidae**,
auditory perception, sense organs, functional morphology 1908.
- Thais carneri**,
predator-prey interactions, feeding behavior, food preferences, *Anadara granosa* 281
- Thalaima mediodorsalis nucleus**,
lesions, effects on acquisition, spatial discrimination learning, cats 4245
- Thalaima crenata**,
food selection, measuring techniques 257.
- Thalaima danse**,
food selection, measuring techniques 257.
- Thalaima sima**,
food selection, measuring techniques 257.
- Thalamus**,
coordination, motor activity, conation 3131.
cortex, rhythms, attention, immobilization, cats 862
electrical stimulation, effects on distress vocalization behavior, guinea pigs 49.
ESB, orientation habituation, cats 3211.
intracranial chemical stimulation, S 100 proteins, antisera, handedness, visual discrimination, rats 797.
intracranial self-stimulation, rats 4254.
lesions, drug effects, 6-hydroxydopamine, activity patterns, rats 998.
- Thamnomys dolichurus**,
arboreal species, growth, behavior ontogeny 3881.
- Thamnomys**,
trail following behavior, conspecifics, chemical stimuli 1154.
- Thamnomys elegans**,
chemoreception, predatory behavior, genetic factors 646.
feeding behavior, geographical variations, evolutionary genetics 330.
predator-prey interactions, energetics, anti-predator behavior, *Plethodon jordanii* 3799.
- Thamnomys sirtalis parietalis**,
reproductive behavior, sexual receptivity, pheromones 2444.
sex pheromone, courtship 1293.
- Thanasimus dubius**,
activity patterns, diurnal variations, measuring techniques 1867.
flight activity, emergence 3787.
- Thanasimus femoralis**,
pheromones, biochemical analysis, synergism, chemotaxis, predator-prey interactions, lps typographus 635.
- Thanasimus formicarius**,
pheromones, biochemical analysis, synergism, chemotaxis, predator-prey interactions, lps typographus 635.
- Theophylline**,
effects on self-injury behavior, rats 3266.
- Theories**,
behavior ecology, recognition, orientation, visual discrimination learning 419.
ethology, learning, adaptations 4418.
fear, disinhibitory effect, analogs, dogs 2228.
learning, ecological analysis 3331.
memory 606.
motor activity control, man 2188.
multiple schedule, response, pigeons, rats 1642.
selectivity, association, dogs 2187.
- Therapy**,
aberrant behavior, veterinary medicine, methodology 4448.
defecation, veterinary, dogs 3345.
hormones, sexual behavior, progesterone 3340.
long-term analgesia, shock, escape learning, rats 4121.
- Thermal effluents**,
power plants, temperature preferences, *Perca flavescens*, USA, Mississippi R. 2825.
- Thermoregulation**,
body temperature effects on self-stimulation, scalytate, rats 2046.
diurnal variations, movements, host plants, *Dactyloctenium aegyptium* 2790.
drug effects, AMPA, rats 2170.
drug effects, bombesin, operant response, rats 945.
energetics, locomotion, *Ursus maritimus* 3045.
flight activity, *Malacosoma americanum* 689.
grooming effects on, gerbils 1590.
heat transfer, hypohalium, temperature effects, brain, *Colinus virginianus* 781.
hibernation, sleep 766.
hormone release, central nervous system, *Rattus rattus* 1042.
role, thermoregulatory behavior, coloration, *Brachystola magna* 1557.
solar radiation, webs, orientation, *Micrathena gracilis* 2998.
stereotyped behavior, intracranial chemical stimulation, ventricles (cerebral), neurotransmitters, substance P, *Gallus domesticus* 834.
- Thermoregulatory behavior**,
activity patterns, diel variations, seasonal variations, *Agkistrodon contortrix* 2818.
activity patterns, light effects, temperature effects, *Testudo graeca* 462.
- Thermoregulatory behavior, (continued)**
altitude effects on, *Anolis cybotes* 1560.
body temperature, *Euphydryas aurinia* 2816.
body temperature, *Leptinotarsa decemlineata* 2804.
body temperature, *Serpentes* 2822.
body temperature, *Xanthoconemus zealandica*, *Austrolestes colsonensis*, *Procordulia smithii*, New Zealand 2815.
cleaning behavior, seasonal variations, *Aves* 2848.
cleaning behavior, *Sterna* 2847.
cold tolerance, winter survival, *Alligator mississippiensis* 2819.
diel variations, *Bubalus bubalis* 3818.
drug effects, *Necturus maculosus* 3801.
drying, wings, *Anhinga anhinga* 3817.
effects on mating behavior vocalization behavior, *Bufo woodhousei* 149.
geographical variations, *Agama*, *Stellio stellio* 3797.
huddling, energetics, *Peromyscus leucopus* 3828.
inhibition, maintenance, control, *Rattus rattus* 737.
melatonin injection effects on temperature preferences, *Terrapene carolina* 1561.
metabolism, temperature effects, *Aotus trivirgatus* 497.
migrations, population dynamics, *Danaus plexippus* 2813.
motor activity, opioids effects on, cats 4376.
nest building, *Tigona denotti* 1537.
nutrient deficiency effects on, iron, rats 521.
ontogeny, hamsters 2870.
orientation, sunlight, *Frontinella communis* 443.
orientation, sunlight, *Gynaephora rossi* 2808.
pallium ablation effects on, *Anolis carolinensis* 461.
panting, dogs 493.
photoperiod, *Lacerta viridis* 3798.
posture, environmental factors, *Pentatomidae* 3780.
posture, temperature effects, pigs 495.
role, thermoregulation, *Brachystola magna* 1557.
sleep (paradoxical), cats 4146.
temperature effects, *Stomoxys calcitrans* 447.
temperature preferences, *Notropis lunensis* 2827.
temperature preferences, *Pisces* 1563.
temperature tolerance, *Pisces*, Indo-Pacific region 1562.
vocalization behavior, colonial characteristics, *Arctiocephalus australis* 2901.
- Thermoplasma thermophilum**,
sexual selection 2379.
- Thermotaxis**,
cell density effects on, *Paramecium caudatum* 1834.
- Thiamine**,
deficiency, feeding behavior, food spillage, food intake, rats 3757.
- Thiamine**,
folic acid, nutrient deficiency, avoidance learning, pharmacology, rats 573.
nutrient deficiency, taste aversion learning, associative learning, rats 1756.
nutrient deficiency, taste aversion learning, recovery, toxicosis, atropine, lithium, rats 1727.
- Thioridazine**,
chronic effects, stereotyped behavior, rats 3258.
- Thirst**,
brain, hypodipsia, lesions, water, intake, rats 402.
drinking behavior, angiotensin effects on, rats 411.
effects on drinking behavior, ducks 378.
orientation cues, discrimination learning, transfer learning, rats 742.
polydipsia, schedule-induced behavior, feral populations, domestic animals, hybrids, rats 1707.
- Thomomys botiae**,
burrows, spatial distribution, territorial behavior, reproductive strategy 2368.
- Thomomys botiae**,
burrowing behavior, food preferences, sexual reproduction, seasonal variations, environmental factors 489.
- Thraupidae**,
feeding behavior, seeds, *Coccyzus colicor* 2704.
- Threatening behavior**,
aggressive behavior, males, mice 1208.
display, dogs 3451.
display, *Pisces* 2322.
man, visual discrimination, nesting behavior, *Larus argentatus*, *Larus marinus* 3054.
social behavior, social hierarchy, *Cercopithecus aethiops* 1387.
visual stimuli effects on, *Betta splendens* 61.
- Threshold**,
auditory perception development, juveniles, cats 736.
detection, intracranial self-stimulation, drug effects, cocaine, dissociation, *Rattus rattus* 958.
feeding behavior, starvation effects on, *Hydra* 276.
feeding, drinking, models 3332.
sensitivity, electric currents, conditioned response, *Carassius auratus*, *Phoxinus phoxinus*, *Leuciscus leuciscus* 3080.
- Threshold limits**,
pheromones, behavior response, males, *Grapholitha molesta* 15.
- Thryothorus ludovicianus**,
song, habitat, acoustics 3420.
vocalization behavior, song, forests acoustics effects on 39.
- Tuja plicata**,
leaves, oils, plant extracts, antifeedants, *Pissodes strobis*, *Alicia ambiens* 2638.
- Thunnus alalunga**,
visual perception, color blindness 3053.
- Thunnus albacares**,
navigation behavior, magnetic fields perception 4045.
- Thyroid hormones**,
serum levels, radioimmunoassay, hibernation behavior, thyroidectomy, *Spermophilus richardsoni* 1044.
- Thyroidectomy**,
hibernation behavior, serum levels, thyroid hormones, radioimmunoassay, *Spermophilus richardsoni* 1044.
- Thyroliberin**,
effects on activity patterns, goats 4407.
effects on avoidance learning, rats 4413.
- Thyrotoxicosis**,
neonates, auditory stimuli, environmental effects, audiogenic seizures, mice 1923.

- Tiapiide,**
drug effects, sexual behavior, estrus cycle, *Rattus rattus* 954
- Tidal rhythm,**
activity patterns, littoral zone, *Pagurus geminus* 3770
burrowing behavior, vertical migrations, diel variations, *Nerita polita* 2770
effects on activity patterns, *Cerithidea decollata*, South Africa, Durban Bay 745
migrations, juveniles, adults, Crangon crangon, Wadden Sea 624.
- Tides,**
effects on foraging behavior, habitat, *Calidris alba* 3703
effects on foraging behavior, *Haematopus ostralegus* 2693
water levels effects on ventilatory behavior, *Upogebia* 426
- Time allocation,**
conditioned suppression, autoshaping, rats 1089
- Timeout,**
reinforcement schedules, fixed ratio schedule, pigeons 1658
- Timing,**
discrimination learning, pyriminamide effects on, mice 3236
migrations, temperature, food availability effects on, *Fringilla coelebs* social interactions, *Fringilla montifringilla* 3012
- Tingidae,**
flight activity, seasonal variations 1864
- Tiphidae,**
mating behavior, chemical communication, sex pheromone 2427
- Tiobe baolathuridae,**
food preferences, feeding behavior, *Bacteria* 3660
- Tissues,**
corticosterone distribution, plasma level, stress, rats 1119
- Tityra semifasciata,**
feeding behavior, seeds 1477
- Tockus,**
prey, predators recognition, avoidance behavior, *Falco* 3766
- Tolerance,**
carbon monoxide, effects on operant conditioning, reinforcement schedules, rats 3941
ethanol, learning, rats 2136
locomotor activity, drug effects, chronic administration, amphetamine, nucleus accumbens, rats 985
morphine, effects on activity patterns, rats 2122
morphine, operant conditioning, reinforcement schedules, pigeons 4284
- Toluene,**
effects on activity patterns, circadian rhythms, rats 1016
effects on free operant avoidance, rats 2089
effects on, operant conditioning, learning behavior, mice 3252
effects on schedule-induced behavior, mice 3253
intrauterine exposure, effects on open-field behavior, mice 3255
- Tones,**
laterality effects, auditory stimuli, ear, reaction time task 730
- Tongue,**
chemoreception, exploratory behavior, *Sceloporus jarrovi* 1912
chemoreception, predatory behavior, *Crotalus eryx* 1444
interaction, tactile perception, auditory stimuli, man 4124
movements, nose hair movements, sleep (paradoxical), anophthalmic mice 1948
nerves response, adaptations, gustatory stimuli, bitterness, frogs 829
role, chemical perception, conspecifics, *Sceloporus jarrovi* 4105
- Toxin immobility,**
activity patterns, p-chloroamphetamine effects on, chickens 2079
antidepressants effects on, escape behavior, swimming, rats 2094
aversion learning, CS freezing, shock, rats 566
chemoreceptors, drug effects, tryptophan, *Gallus gallus* 1124
chickens, drug effects 2241
convulsions, catalepsy, catatonias, shock, drug effects, rats 739
drug effects, effects on 4485
drug effects, nioxetone, fluoxetone, neurotransmitters, uptake, chickens 936
effects on performance, operant conditioning, *Gallus gallus* 1123
epilepsy, catalepsy, catatonias, neurotransmission, rats 2243
imprinting, auditory stimuli, juveniles, chickens 2242
morphine, drug effects, quipazine, fenfluramine, apomorphine, juveniles, chickens 1980
opioid receptors, substantia nigra par reticulara, regulation, striate cortex efferent pathway, rats 4162
serotonin, dopamine effects on, chickens 1122
sex hormones, effects, behavioral genetics, *Sylvilagus floridanus* 788
temperature effects on, *Rana temporaria* 4484
- Tool use,**
feeding behavior, food organisms, *Pan troglodytes*, *Pseudocanthotermes spiniger* 3760
grooming, mother-offspring interactions, *Macaca fuscata* 4486
locomotion, fossils, man 3855
sex differences, *Pan troglodytes* 2244
- Topography,**
environmental factors, homing behavior, pigeons 663.
- Tortricidae,**
flight activity, diurnal variations 684
periodicity, diurnal variations, flight activity 1084
- Toxicity,**
nervous system, dimethylmercury, effects on social behavior, rats 4328
pollution effects, DDT, hyperactivity, swimming, diurnal variations, *Planchthys* *lucasi*, Baltic 511
pyrolysis products, escape behavior, rats 3261
taste aversion induction, trichloromethane, mice 4321
zinc phosphide, avoidance learning, *Mustela eversmanni* 3963.
- Toxicity testing,**
benzene, motor activity, neurophysiology, *d*-amphetamine, rats 859.
- Toxicity testing,**
behavior, reviews 4277
methyl bromide, taste aversion learning, rats 3965
physostigmine, taste aversion learning, rats 4320.
- Toxins,**
avoidance behavior, cues, sampling, duration, rats 1739
avoidance behavior, pest control, *Rattus rattus* 2213
taste aversion, avoidance learning, guinea-pigs 1737.
- Totocara cauli,**
parasites, effects on learning behavior, exploratory behavior, mice 3229
parasites, effects on temperature perception, consummatory behavior, mice 413.
- Toxomerus marginatus,**
food organisms, predation, *Misumena vatia* 273.
- Toxorhynchites amboinensis,**
reproductive behavior, culture effects on 108.
- Toxorhynchites theobaldi,**
food preferences, feeding behavior, *Aedes aegypti*, *Culex fatigans* 307.
- Toxostoma curvirostre,**
reproductive behavior, breeding success, feeding behavior, habitat preferences, nesting behavior 168
- Toxostoma longirostre,**
reproductive behavior, breeding success, feeding behavior, habitat preferences, nesting behavior 168
- Toxostoma rufum,**
predation, interspecific relationships, habitat preferences, *Plethodon cinereus* 2830
song, geographical variations 3404
- Trace conditioning,**
autoshaping, interstimulus interval, response acquisition, pigeons 1659
blocking, rats 3949
fear conditioning, interstimulus interval, rats 1789.
- Trace fossils,**
behavior indicators, paleoecology, marine organisms 3852.
- Trachops cirrhosus,**
feeding behavior, predation, echolocation, frequency 390.
- Trachurus symmetricus,**
social behavior, feeding behavior, larvae 2833
- Tracking,**
activity patterns, wildlife, radio-tagging, telemetry, electronic equipment 4429.
antennae, visual perception, *Gryllus campestris* 1882
courtship, females, *Drosophila melanogaster* 134
learning behavior, autoshaping, omission contingency, rats 1706
movements, visual perception, adaptation, direction 4075
omission training, multiple schedule, rats 1698
orientation, visual perception, mathematics, *Musca domestica*, 706
predatory behavior, *Crotalus atrox* 1447
visual discrimination, fatigue 1879
visual perception, mating behavior, *Drosophila melanogaster* 710
visual perception, oscillations, *Musca domestica* 713.
- Trail following behavior,**
chemical communication, recruitment, food sources, *Tetramorium impurum* 1150.
chemical stimuli, conspecifics, *Thamnomys* 1154
diel periodicity, temperature effects, *Indomermes purpureus*, Australia 1553.
grazing, *Onchidium varicatum* 623
scent marking behavior, olfactory stimuli, maze learning, rats 4015
sex pheromone, scent marking behavior, *Pseudococcus calceolariae* 1137.
trail pheromone, *Polysia sericea* 2257
- Trail pheromone,**
chemical communication, reviews, *Tringona spinipes* 2265.
chemical communication, role, sternal gland, *Aneuretus simoni* 1143.
predatory behavior, *Amblyseius fallacis*, *Phytoseiulus macropilis* 1901.
scent marking behavior, trail following behavior, *Pseudococcus calceolariae* 1137.
trail following behavior, *Polysia sericea* 2257
workers recruitment, feeding behavior, *Myrmica rugulosa* 2634.
- Training,**
cortex (visual), memory, brain proteins, rats 842.
drugs, discrimination, operant response, rats 1092.
effects on cortex (frontal) pyruvate dehydrogenase (isopropyl) enzyme activity phosphorylation, effects on 2004.
feeding stimuli, operant response, misbehavior, rats 1693.
operant conditioning, methodology, blood pressure, self-assessment, *Papio cynocephalus* 1098
predators, mathematical models, predator-prey interactions, feeding behavior, diets 1062
stimuli effects on maze learning, rats 1803
swimming behavior, metabolism, *Xenopus laevis* 691.
- Training level,**
hertability, horses 4450.
- Tranquilizers,**
discrimination learning, reinforcement manipulation, rats 1790.
drug effects, operant response, punishment, rats 2162.
maternal behavior, offspring, sheep 2211.
- Transfer learning,**
appetitive behavior, operant response, rats 542.
autoshaping, classical conditioning, conditioned inhibition, pigeons 2931.
classical conditioning, aversion learning, conditioned excitation, conditioned inhibition, dogs 1752.
discrimination learning, acquisition, performance, rats 4001
discrimination learning, rats 1787.
inhibition, man 1798
matching-to-sample, color, pigeons 2967.
matching-to-sample, oddity discrimination learning, concept learning, pigeons 4013.
motivation, thirst, orientation cues, rats 742.
pairing, language, *Pan troglodytes* 603
reinforcement schedule, classical conditioning, rats 554.
- Transfusion,**
plasma, protein, operant conditioning, rats 1683.
- Transplantation,**
forebrain, effects on behavior, rats 4172.
pacemakers, circadian rhythms, locomotor activity, *Acheta domestica* 3096.
- Transport,**
dopamine, brain, cathinone effects on, rats 2090.
environmental effects, stress, horses 1121.
- Transversotrema palaiense,**
circadian rhythms, hatching 1931.
- Tranylcypromine,**
effects on, locomotor activity, stereotyped behavior, hyperactivity, reserpine, rats 1004
- Traps,**
catches, oviposition, *Parasetigena silvestris*, *Tachinomyia*, *Oswaldi*, *Patelloa silvatica*, *Gonia sagax* 109
diurnal variations, periodicity, flight activity, *Tortricidae* 1084
sex pheromone, bait, *Dioryctria disculsa*, USA, South Carolina 639.
- Travel,**
prey, escape behavior, *Mus musculus*, *Crotalus viridis* 2856.
- Tree-rubbing behavior,**
Alouatta palliata 3871.

- Trialeurodes vaporariorum**, orientation, visual perception, color, light 4079.
- Trials**, activity patterns, locomotor activity, reinforcement, cues, odors, rats 1679.
- Triatoma infestans**, flight activity, sex differences 1846.
- Tribolium castaneum**, aggregation pheromone, attractancy 1139, genetics, mating behavior, mate selection, strains 2879, males, aggregation pheromone, production site location, aggregation behavior 215, photokinesis, activity patterns, habitat preferences 1548, photokinesis, photokineme, light, effects on locomotor activity 3001.
- Tribolium confusum**, aggregation pheromone, attractancy 1139, photokinesis, activity patterns, habitat preferences 1548, photokineme, photokineme, light, effects on locomotor activity 3001.
- Tributyltin methacrylate-carbon monoxide-methylmethacrylate ester**, effects on avoidance learning, rats 4308.
- Trichinella spiralis**, chemotaxis, pheromones, attractancy, sex differences 1528.
- 1,1,1-Trichloroethane**, drugs, effects on matching-to-sample, Papio anubis 4395.
- Trichloromethane**, toxicity, taste aversion induction, mice 4321.
- Trichodonina**, social behavior, foraging behavior 2563.
- Trichoglossus**, display, pair bond, sexual behavior, social behavior 1156.
- Trichogramma pretiosum**, biological control, kairomones effects on host searching behavior, Heliothis zea 18.
- Trichoplusia ni**, flight activity, sex pheromone effects on 14, sex pheromone attractancy, habituation 1147, sex pheromone, attractants, pheromone traps, Scirtes orbiculatus 1836, sex pheromone components effects on males flight activity 1863.
- Trichopoda pennipes**, parasitism, Nezara viridula 1540.
- Trichostrogylus colubriformis**, homeostasis, osmoregulation, coiling behavior 2779.
- Trichosurus vulpecula**, movements, radio-tagging 4428.
- Tridentiger obcurus**, nesting behavior, burrows, visual stimuli 2835.
- Triethyltin**, effects on activity patterns, learning behavior, rats 2100, effects on food intake, brain neurochemistry, rats 4315, effects on motor activity, orientation, rats 3248, effects on operant response, adjunctive behavior, reinforcement schedules, rats 4293, taste aversion learning, chemical stimuli, rats 3964.
- Triethyltin bromide**, effects on motor activity, nervous system damage, rats 4327.
- Triethyltin sulfate**, effects on maze learning, memory, rats 4294.
- Trifolium repens**, seeds, phenology, behavior, morphology, Apis mellifera 1544.
- Trigeminal nerve**, ablation, effects on food intake, operant response, intracranial self-stimulation, rats 4159, chemoreceptors, odor thresholds, chemical stimuli, rats 4116.
- Triglycerides**, infusion, food intake, satiety, taste aversion, conditioned response, rats 3759.
- Trigona**, feeding behavior, competition, Phaethronis superciliosus, Costa Rica 1522.
- Trigona denotii**, nests structure, thermoregulatory behavior 1537.
- Trigona spinipes**, chemical communication, trail pheromone, reviews 2265.
- 3,3',5'-Triiodothyronine**, effects on synapses function, limbic system, substantia nigra, dopamine systems, rats 4350.
- 2,4,5-Trimethoxyamphetamine**, effects on behavior, physiology, monkeys 1022.
- Trimethyltin**, effects on activity patterns, vocalization behavior, hippocampus degeneration, rats 4312, effects on hippocampus, cell loss, activity patterns, rats 4316, effects on hippocampus, damage, problem solving, maze learning, rats 4314, effects on learning behavior, memory, rats 4317, effects on maze learning, memory, hippocampus damage, rats 4313, effects on motor activity, operant response, mice 4318, taste aversion learning, chemical stimuli, rats 3964.
- Trimethyltin hydroxide**, effects on maze learning, memory, rats 4294.
- Trionyx muticus**, feeding behavior, food composition, predators, sex differences, habitat preferences 327.
- Triphenyltin**, intraterine exposure, effects on motor activity development, avoidance learning 4307.
- Trisomy**, exploratory behavior, cognitive ability, mice 3850.
- Triturus alpestris**, predatory behavior, sensory stimuli 2665.
- Triturus cristatus**, orienting response, oral cavity, external stimuli 4043.
- Triturus viridescens**, discrimination learning, reversal learning 3988.
- Triturus vulgaris**, orienting response, oral cavity, external stimuli 4043.
- Trochidae**, sympatric populations, anti-predator behavior 432.
- Trochilidae**, flight activity, feeding behavior, diurnal variations, light intensity, Brazil 2734.
- Trochilidae**, (continued) foraging behavior, flight energetics 1486, foraging behavior optimization, Ipomopsis aggregata host plants 2691.
- Trochosa rutilica**, comparison, locomotion, Lycosa tarentula 685.
- Troglodytes troglodytes**, song complexity, vocalization behavior, learning behavior, geographical variations 42, territorial behavior, reproductive status effects on 2363.
- Trogophilus cavicola**, escape behavior, geotaxis, caves 2803.
- Trogloderma granarium**, pheromones olfactory perception, strains, effects on behavior 23.
- Trogon massena**, feeding behavior, seeds 1477.
- Trophallaxis**, chemical communication, castes, colonial characteristics, Apis mellifera mellifera 2277, communication, antennae, information theory, Myrmica rubra 2275, social organization, nest provisioning, brood care, environmental effects, Tapinoma erraticum 2559.
- Trophic levels**, feeding behavior, coral reefs, Pisces, Malagasy Rep. Coast 338.
- Trophic relationships**, predators, foraging behavior ecology, deserts, Lacertilia 1559.
- Tropical environment**, rain forests, autecology, behavior, Primates, Malaysia, books 3371, sound production, diurnal variations, Cicadidae 2267.
- Tropiconabius capisiformis**, predator-prey interactions, Pseudoplusia includes 293.
- Trypodendron lineatum**, phototaxis, light wavelength effects on 1883.
- Tryptamine**, antagonists, drug effects, operant response, punishment, rats 2162.
- Tryptophan**, deprivation, effects on sleep circadian rhythms, rats 3126, diets, aggressive behavior, lesions, septum, rats 2022, drug effects, muricide, feeding, drinking, locomotion, brain 5-hydroxytryptamine, rats 2154, effects on aggressive behavior, muricide, rats 2336, 5-hydroxytryptamine, biochemistry, blood, social behavior, Ceropithecus aethiops saebaeus 807, tonic immobility, chemoreceptors, drug effects, Gallus gallus 1124.
- Tsuga heterophylla**, burrowing behavior, vegetation patterns, habitat preferences, ecological distribution 487.
- Tupaia gila**, social organization, juveniles 3650.
- Turdoides affinis**, brood care, parasites, Clamator jacobinus 2539.
- Turdus fisheri**, feeding behavior, interspecific relationships, commensalism, Cossypha natalensis 2709.
- Turdus iliacus**, feeding behavior, niches 2707.
- Turdus merula**, cleaning behavior, seasonal variations 2848, feeding behavior, association, Talpa europaea 2599, parental behavior, brood care 3588, song, acoustics 3410, vocalization behavior, song matching, conspecifics 1174.
- Turdus migratorius**, anti-predator behavior, mobbing, seasonal variations, Otus asio 2840, habitat preferences, nest building, urban environment 174, roosting behavior, restlessness, locomotor activity, environmental factors, sunlight, social environment 2836.
- Turdus philomelos**, cleaning behavior, seasonal variations 2848, feeding behavior, leaf litter, association, Talpa europaea 2600.
- Turdus pilaris**, feeding behavior, niches 2707.
- Tursiops truncatus**, echolocation, biacoustics, noise 3085, matching-to-sample, short term memory, auditory discrimination learning 3996, vocalization behavior, sound production, physiology 45.
- Twins**, parental behavior, mortality, sheep 3351.
- Tympanuchus cupido**, auditory communication, vocalization 1170, reproductive behavior, auditory communication, reproductive isolation, sympatric populations, Pedioetes phasianellus 2288.
- Tyrannidae**, foraging behavior 1484.
- Tyto alba**, auditory perception, sound localization, early experience effects on 3082, auditory perception, sound localization, predatory behavior 3081, feeding behavior, food preferences, seasonal variations, British Isles, Wales 350, food preferences, feeding behavior, food organisms biomass, age effects 374, parental behavior, social behavior, predatory behavior 200, rearing, parental behavior, brood care 2535.
- U. V. Radiation**, effects on flight activity, Antheraea pernyi 3040, effects on movements, orientation, Plea leachi 3067.
- Uca lactea perplexa**, feeding behavior, droving, food availability 2623.
- Uca minax**, display, courtship, stereotyped behavior 3377.
- Uca pugnator**, feeding behavior, chemical stimuli, amino acids, carbohydrates, food organisms 267, reproductive behavior, circadian rhythms, hatching, endogenous stimuli 1932.

- Uca pugnax**,
display, courtship, stereotyped behavior 3777
- Uca vocans vocans**,
feeding behavior, droving, food availability 2623
- UCS**,
autoshaping, reinforcement magnitude, effects on CS, pigeons 3905
aversion, drug effects, scopolamine hydrobromide, rats 2151
classical conditioning, conditioned response, pigeons 3908
conditioned response formation, CS 2928
CS, taste aversion learning, retention, memory, rats 1736
effects on, eyelid conditioning, preextinction, CS, rabbits 1694
habituation, classical conditioning, rats 2926
hyperthermia, stress, rats 4482
preexposure, effects on taste aversion learning, blocking, rats 3957
preexposure, taste aversion learning, poisoned partner effect, rats 3958
shock, fear conditioning, adaptations, rats 569
sucrose, appetitive conditioning, rats 3939
- Uloboridae**,
avoidance behavior, defensive behavior, predators 3789
- Uloborus ferokus**,
cocoon construction, maternal behavior 3357
- Uloborus repubbicanus**,
avoidance behavior, defensive behavior, predators 3789
- Ultradian rhythms**,
self-stimulation, reward, rats 757
- Ultrasonics**,
auditory stimuli, habituation, rats 1920
calling behavior, estrous cycle, hamsters 1327
communication, Vespertilionidae 48
elementary, electronic equipment, swimming behavior, Pisces 4424
- Ultrasonic**,
communication, mother-offspring interactions, mice 2552
vocalization behavior, hormones, social interactions, sexual reproduction, Rodentia 4403
- Ultrastructure**,
sensilla, chemoreceptors, Macrosteles fascifrons 2642
- Ultraviolet radiation**,
sensitivity, compound eyes, light traps, Spodoptera exigua, Spodoptera frugiperda 712
- Unconditioned response**,
auditory stimuli, ontogeny, chickens 2910
olfactory stimuli, amines effects on, brain, Apis mellifera 3117
- Undernutrition**,
early experience, brain weight, environmental conditions, enrichment, rats 3122
early experience, effects on learning behavior 2904
early experience, effects on memory, hippocampus, rats 1616
- Ungulata**,
hosts, feeding behavior, Buphagus erythrorhynchus 2717
- Unioleicola crassipes**,
feeding behavior, Netherlands, Maarssen I L. 2612
- Upogebia**,
ventilatory behavior, water levels effects on, intertidal environment 426
- Upogebia affinis**,
ventilatory behavior, water levels effects on, intertidal environment 426
- Upogebia africana**,
ventilatory behavior, water levels effects on, intertidal environment 426
- Upogebia capensis**,
ventilatory behavior, water levels effects on, intertidal environment 426
- Urban environment**,
nest building, habitat preferences, Aves 174
- Urban environments**,
orientation, navigation behavior, homing behavior, pigeons 4056
- Urbanus proteus**,
migrations, weather, synoptic-scale wind systems 3007
- Urea**,
gustatory stimuli, food preferences, Camponotus compressus 3674
- Urination**,
scent marking behavior, Martes martes 3480
sexual behavior, courtship, androgen, blood levels, odor, Rangifer tarandus 190
- Urine**,
chemical stimuli, paternal effects, maternal behavior, Onychomys torridus 3594
chemoreception, aggressive behavior, males, rats 1184
males, chemical stimuli, locomotor activity, neonates, mice 3593
- Urine odors**,
chemical communication, stability, guinea-pigs 1180
olfactory discrimination, methodology, gerbils 2203
olfactory perception, habituation, rats 4112
preferences, juveniles, focal populations, guinea-pigs 1178
- Uropetala carovel carovel**,
emergence age composition, larvae, New Zealand, Wellington 3788
- Uroproglial gland**,
ablation, dust baths, cleaning behavior, females, chickens 784
- Ursus americanus**,
home range, ranging behavior, seasonal variations 2854
- Ursus maritimus**,
locomotion, energetics, predatory behavior 3045
population density effects on social interactions, spatial distribution, segregation 2579
social interactions, adults, play 2235
- US**,
classical conditioning, fear conditioning, rats 2186
- USA, Florida**,
environmental effects, nesting behavior, Malaclemys terrapin 147
- USA, Washington Coast**,
feeding behavior, Siphonophora 278
- Uta stansburiana**,
territorial behavior, home range, habitat utilization, social organization, dominance 1220
- Uthessa ornatrix**,
sex pheromone, courtship role, biochemical analysis, diets 1152
- Vagina**,
secretions, chemical communication, pheromones, Pan troglodytes 3439
stimulation, effects on sexual receptivity, locomotion, pain perception, rats
- Vagina, (continued)**
857
- Vagus nerve**,
ablation, cholecystokinin, exploratory behavior, rats 3312
ablation, effects on hyperphagia, rats 2034
insulin, regulation, hyperphagia, rats 4155
taste aversion, conditioned response, extinction, rats 4154
- Valenciennellus tripunctulatus**,
feeding behavior, food selection, grazing, predation, Mexico Gulf 332
feeding behavior, population density, trophic relationships, Mexico Gulf 331
food selection, feeding behavior, predators, trophic relationships 333
- Valves**,
movements, pollution effects, zinc, Scrobicula plana 2776
- Vanessa atalanta**,
aggressive behavior, territorial behavior 2346
- Variability**,
song, geographical distribution effects on, Dendroica pensylvanica, Vermivora pinus 1159
song, vocalization behavior, Vicro griseus griseus 36
sound production (biological), auditory communication, Drosophila nasuta 30
- Variable interval schedule**,
behavioral contrast, reinforcement magnitude, pigeons 539
CS, operant response 1639
discriminative stimuli, concurrent schedule, operant response, response matching, stimulus control, pigeons 1673
drug effects, amphetamines, reinforcement, response rates, rats 2161
matching, performance, models 1065
matching-to-sample, short term memory, temporal perception, pigeons 1813
operant conditioning, reinforcement, visual stimuli, pigeons 3909
reinforcement, mediating membrane response conditioning, second-order schedule, second-order conditioning, serial compound conditioning, rabbits 1702
reinforcement schedules, alternation learning, pigeons 1662
reinforcement schedules, delayed response, changeover delay, discrimination learning, pigeons 1670
reinforcement schedules, food, response, behavioral contrast, pigeons 1661
response, carbaryl effects on, rats 2092
trials, discrimination learning, behavioral contrast, rats 4006
- Variable ratio schedule**,
continuous reinforcement, extinction, rats 1635
reinforcement, punishment, electrical stimulation, self-stimulation, monkeys 1711
- Variable time schedule**,
concurrent schedule, matching, fixed-ratio change-over, pigeons 1652
CS, operant response 1639
- Variance**,
statistical analysis, male sterility, competitiveness, Insecta 2194
- Variants**,
song, populations, hybrids, Chorthippus mollis 1140
- Varroa jacobsoni oudemans**,
activity patterns, rhythms, motivation 3777
- Vasoactive peptides**,
ESB, hypothalamus (ventromedial), defensive behavior, rabbits 2062
- Vasopressin**,
effects on discrimination learning, appetitive conditioning, rats 4175
effects on grooming, escape behavior, mice 4405
- Vasotocin**,
effects on females mating behavior, Rana pipiens 150
- Vectors**,
vector-borne diseases, host preferences, food preferences, oviposition, dispersion, feeding behavior, Scaphytopius acutus, Prunus persica, Trifolium pratense 294
- Vegetation**,
nesting behavior, habitat selection, Larus argentatus 2466
- Vegetation patterns**,
effects on predation efficiency, Cyprinodontidae, Decapoda 418
habitat preferences, Odocoileus hemionus 2868
habitat preferences, territorial behavior, Dendragapus obscurus 2360
pasture, effects on feeding behavior, sheep 383
rain forests, home range, activity patterns, Hylobates, Indonesia 2871
- Velamen parallelum**,
abundance, feeding behavior 3661
- Velocity**,
flight activity, Locusta migratoria migratorius 4068
flight activity, wing-beat frequency, Locusta migratoria 1868
- Venom**,
effects on escape behavior, Mus musculus, Crotalus viridis 2856
- Venom gland**,
foaming, defense mechanisms, Pachycondyla 58
- Ventilatory behavior**,
morphology, adaptations, Platyccephalus fuscus 780
pollution effects, carbaryl, Macropodus cupanus 3807
posture, respiration frequency, juveniles, Mammalia 515
respiration, respiratory function, exploratory behavior, rats 1110
respiration, swimming behavior, larvae, Engaulis mordax 2834
water levels effects on, intertidal environment, Upogebia 426
- Ventral mesencephalic tegmentum**,
regulation, attention, β -rhythms, cats 4204
- Ventral striatum**,
coordination, motor activity, conation 3131
- Ventricle (fourth)**,
alloxan, effects on food intake, glucose metabolism, rats 4196
- Ventricle (lateral)**,
intracranial chemical stimulation, cholecystokinin peptides effects on satiety, sheep 2066
intracranial chemical stimulation, naloxone, drinking, rats 2065
- Ventricle (third)**,
lesions, effects on water intake, sheep 4232
- Ventricles (cerebral)**,
drug effects, bombesin, thermoregulation, operant response, rats 945
injection, calcium, magnesium, effects on feeding behavior, drinking behavior, sheep 799
intracranial chemical stimulation, cholecystokinin antisera, effects on, avoidance behavior, rats 579
intracranial chemical stimulation, drug effects, 6-hydroxydopamine, reserpine, aggressive behavior, cats 997
intracranial chemical stimulation, neurotransmitters, substance P, stereotyped

- Ventricles (cerebral), (continued)**
behavior, thermoregulation, *Gallus domesticus* 834
- Ventricles (third),**
subfornical organ, lesions, drinking behavior, rats 3206.
- Venturia canescens,**
parasitoid, intraspecific relationships, competition, effects on host searching behavior 1556.
- Veratridine,**
effects on avoidance learning, memory, chickens 1816.
- Vermivora pinus,**
geographical distribution, effects on song variability 1159.
- Veromessor pergandeii,**
feeding behavior, food preferences, seeds 1437,
foraging behavior, predator-prey interactions, *Phrynosoma platyrhinos*, USA, Nevada 1521.
- Vertebrata,**
parental behavior, sex differences, evolution 2515.
photoreceptors, circadian rhythms, reviews 4163.
sexual reproduction, role, olfaction 1913.
- Vertical distribution,**
activity patterns, diel variations, *Xiphias gladius* 1595.
diel variations, zooplankton, Gennadas, Benthogennema, Gulf of Mexico 1404.
flight activity, streams, *Eptesicus fuscus*, *Myotis lucifugus* 4071.
geotaxis, phototaxis, *Drosophila* 1839.
nesting behavior, *Oreoscoptes montanus*, *Amphispiza belli*, *Spizella breweri*, site location, *Artemisia* 1305.
- Vertical migrations,**
diel activity, spatial distribution, host plants, *Acyrtosiphon gossypii* 2814.
diets, Gennadas, Benthogennema, Gulf of Mexico 1404.
diurnal variations, marine fauna, *Xiphias gladius* 471.
juveniles, photoperiods effects on, *Meloidogyne* 621.
juveniles, soil characteristics effects on, *Meloidogyne incognita* 622.
locomotor activity, circadian rhythms, *Anisogammarus annandalei*, *Anisogammarus joesoensis* 3090.
mating behavior, morphology effects on, *Pleuromamma piseki* 422.
swimming behavior, water desuperate effects on, *Daphnia* 3773.
tidal rhythm, diel variations, *Neirita polita* 2770.
tidal rhythm effects on activity patterns, *Cerithidea decollata*, South Africa, Durban Bay 745.
water temperature effects on, *Daphnia magna* 3772.
- Vespa orientalis,**
social behavior, colonies, imprinting, attachment, queens 216.
- Vespertilionidae,**
communication, social interactions 48.
- Vespertilio superans superans,**
reproductive behavior, feeding behavior, maternal behavior 2486.
- Vespidae,**
interspecific relationships, competition, effects on *Chauliognathus pennsylvanicus* mate selection 135.
- Vespa consobrina,**
nesting behavior, colonial characteristics, activity patterns 2564.
nesting behavior, colonies, site selection, flight activity 3610.
- Vespa germanica,**
queens, nest building, culture, laboratories 1262.
- Vespa maculifrons,**
colonial characteristics, communication, vibratory stimuli 2253.
queens, nest building, culture, laboratories 1262.
- Vespa vidua,**
queens, nest building, culture, laboratories 1262.
- Vespa vulgaris,**
colonial characteristics, communication, vibratory stimuli 2253.
foraging behavior, nectar reinforcement effects on 1414.
queens, nest building, culture, laboratories 1262.
- Veterinary medicine,**
aberrant behavior therapy, methodology 4448.
case surveys, aberrant behavior, aggression, *Canis familiaris* 3344.
therapy, defecation, dogs 3345.
- Vibrations,**
leaves, communication, *Cupienius salei* 1128.
- Vibratory stimuli,**
communication, colonial characteristics, *Vespa vulgaris*, *Vespa maculifrons* 2253.
communication, surface water, aquatic animals, reviews, *Gerridae* 2271.
mechanoreceptors, neurophysiology, *Locusta migratoria*, *Decicus verrucivorus* 1909.
physical activity, behavior response, *Argiope aurantia* 3065.
role, mating behavior, courtship, *Chrysopa perla* 2401.
- Vireo griseus griseus,**
song, vocalization behavior, variability 36.
- γ -Vinyl α -aminobutyric acid,**
effects on feeding behavior, food intake, rats 4391.
- Vipera,**
chemoreception, tongue flicking behavior 4104.
- Vireo gilvus,**
nests, site selection, environmental factors, solar radiation, USA, Arizona 2472.
- Vireo griseus,**
territorial behavior, vocalization behavior 1157.
- Vireo olivaceus,**
interspecific relationships, competition, aggressive behavior, *Vireo philadelphicus* 2324.
song, territorial behavior, breeding success 2294.
- Vireo philadelphicus,**
interspecific relationships, competition, aggressive behavior, *Vireo olivaceus* 2324.
- Vireola sebifera,**
host plants, seeds, feeding behavior, Aves 1477.
- Vision,**
autoshaping, psychophysics, pigeons 1657.
behavior analysis methodology, goggles, Aves 4426.
coordination, eye, neck, muscles, vestibular nystagmus, cats 3129.
cortex (prefrontal), unit activity, *Macaca mulatta* 3180.
electrophysiological recording, optic tectum ganglia, *Rana esculenta* 4186.
pheromones, effects on mating behavior, *Heliothis zea* 2393.
physiology, visual perception, *Rana esculenta* 828.
predatory behavior, food selection, prey 2602.
predatory behavior, predatory aggression, literature reviews, *Salicidae* 1405.
- Vision, (continued)**
visual perception, *Bombus hortorum* 707.
visual perception, *Musca domestica* 827.
visual stimuli, color, light, adaptations 701.
visual stimuli, contrast-flash effect, visual masking 1878.
visual stimuli, physiology, contrast sensitivity 702.
- Visual communication,**
agonistic behavior, resources, *Pagurus bernhardus* 2251.
bioluminescence, courtship, *Photuris lucifescens* 2274.
central nervous system organization effects on, *Photuris versicolor* 825.
coloration, morphology, adaptiveness 700.
dialects, foraging behavior, range, *Apis mellifera carnica*, *Apis mellifera* linguistica 2268.
display, threatening behavior, dogs 3451.
eye coloration, Aves 3409.
geographical variations, *Mirafra rufocinnamomea* 2303.
man, Primates, books 4494.
stereotyped behavior, conspecifics, *Reticulitermes* 7.
- Visual deprivation,**
amblyopia, lid suture, visual stimuli, *Macaca mulatta* 725.
early experience, effects on visual perception, cats 3060.
effects on lateral geniculate nucleus morphology, *Cacaca* 805.
effects on visual perception, cats 4088.
effects on visual perception, cats 4089.
polypeptides, stress, plasma corticosterone, chickens 1120.
recovery of function, visual perception, motor activity, cats 3057.
visual perception, critical flicker frequency, cats 4087.
- Visual discrimination,**
alternation learning, expectancy, response choice, rats 549.
Acous trivirgatus 1896.
aversion learning, food selection, conditioning, pretraining, rats 1780.
cerebral dominance, asymmetry, morphology, cortex, cats 796.
color, *Apis mellifera* 1885.
cortex ablation effects on, rats 907.
cortex (visual) lesions effects on, rats 889.
cues, discrimination learning, drug effects, physostigmine, atropine, rats 1006.
discrimination learning, color, *Stumus vulgaris* 2966.
discrimination learning, lesions, cortex (temporal), cats 2033.
discrimination learning, matching-to-sample, pigeons 587.
forebrain lesions effects on, *Salamandra salamandra* 3181.
interocular transfer, Wulst ablation, telencephalon, pigeons 4220.
lesions, cortex (visual), striate cortex, monkeys 3209.
malnutrition effects on, rats 1894.
memory, bilateral engram storage, corpus callosum, cats 4028.
methodology, cortex (visual) ablation, gerbils 721.
neurons, *Musca domestica* 827.
predators face recognition, *Chromis caeruleus* 3808.
predators face, recognition, coral reefs, *Pisces* 3809.
S 100 proteins, effects on, rats 797.
shape, sheep, cattle 1893.
threatening behavior, man, nesting behavior, *Larus argentatus*, *Larus marinus* 3054.
tracking, fatigue 1879.
visual evoked response, feeding behavior, juveniles, Aves 3056.
visual perception, age effects 1898.
visual perception, colliculus role, monkeys 3061.
visual perception, cortex (occipital) lesions, rabbits 3194.
visual perception, locomotion, walking, *Drosophila melanogaster* 708.
visual perception, pigeons 4082.
volume, rearing effects on, *Mesocricetus auratus* 1891.
- Visual discrimination learning,**
behavior ecology, *Mammalia* 419.
color, forms, light intensity, *Apis mellifera adansonii*, *Melipona quadricincta* anthidioides, *Melipona rufiventris* 2961.
cortex (visual), neurophysiology, saccadic eye movements, monkeys 4092.
drug effects, rats 4354.
eye, movements, *Macaca arctoides* 1797.
hypothalamus (lateral), ESB, reinforcement, rats 3210.
maze learning, delayed reinforcement, *Cebus apella* 1796.
memory, deficient mutant, *Drosophila melanogaster* 2985.
memory, pigeons 4020.
memory, testosterone effects on, chickens 2965.
noreadrenaline role, *Callithrix jacchus* 4012.
radiation effects on, intrauterine exposure, *Saimiri* 2924.
recognition, visual stimuli, conditioned response, dogs 596.
reinforcement schedules, rats 4008.
visual perception, interocular transfer, pigeons 4083.
visual perception, retina, pigeons 4085.
- Visual evoked response,**
attraction, visual stimuli, photographs, conspecifics, *Dasyllus aruanus* 1886.
head movements, nystagmus, *Tenebrio molitor* 705.
heart rate, vagal cardiac neuron, cardiac conditioning, neurophysiology, pigeons 1981.
man, visual perception, motion, directional selectivity 1895.
neurons, attention, selectivity 1972.
orientation, eye, *Musca domestica* 704.
visual discrimination, feeding behavior, juveniles, Aves 3056.
visual stimuli, hosts, *Mansonella*, *Anopheles ziemanni* 1881.
visual stimuli, photostasis, escape behavior, *Microchroptera* 1892.
- Visual perception,**
acoustic startle response, ontogeny, rats 1615.
activity patterns, genetic variance, heredity, *Columba livia* 3846.
audience tracking, *Gryllus campestris* 1882.
auditory perception, learning, diving behavior, *Pinnipedia* 2903.
bioluminescence, spawning behavior, *Odontostylis enopla* 703.
cognitive ability, hamsters 1890.
colliculus role, monkeys 3061.
color blindness, *Scorbridae*, *Istiophoridae* 3053.
color, effects on cortex (inferotemporal) neurons response, monkeys 728.
color, go/no-go discrimination learning, cortex (prefrontal) neurons activity, monkeys 4210.
comparative studies, man, *Macaca mulatta* 723.
compound eyes, light intensity, *Chironomus borealis* 3050.
cortex (inferotemporal) lesions effects on, monkeys 727.
cortex (visual) activity, rats 4199.
cortex (visual) lesions effects on, *Galago* 877.

Visual perception, (continued)

cortex (visual) lesions effects on, visual deprivation, cats 4088
 cyclothoria, cats 3058
 depth, cortex (visual) ablation effects on, cats 3059
 development, juveniles, cats 1623
 diets, protein deficiency effects on, *Maccaca mulatta* 1899
 early experience effects on, visual deprivation, cats 3060
 eye color mutants, effects on mating behavior, *Drosophila melanogaster* 128
 eye, functional morphology, *Strix aluco* 4084
 eye movements, Pisces 1887
 foveal flashes, binocular, monocular 4073
 homing behavior, food deprivation effects on, rats 1626
 interocular transfer, brain commissures, lesions, corpus callosum, rats 899
 interocular transfer, pigeons 4083
 landing behavior, habituation, *Drosophila melanogaster* 690
 light, polarization, Teleostei 715
 locomotion, *Sula bassana* 3055
 measuring techniques, equipment, rotation 1071
 methodology, cortex (visual) ablation, gerbils 721
 motion, directional selectivity, visual evoked response, man 1895
 motion, neurophysiology, *Phormia terraenovae*, motion, visual perception, neurophysiology, *Phormia terraenovae* 4077
 motor activity, neurophysiology, ethology, niche position, *Rodentia* 1568
 motor activity, recovery of function, visual deprivation, cats 3057
 movements, neurons, neurophysiology, *Musca domestica* 4076
 neurons, *Musca domestica* 827
 object permanence, cats 4090
 ocelli neurons, effects on orientation, *Schistocerca americana gregaria* 711
 optical illusion, *Papio anubis* 4091
 orientation, color, light, *Trialeurodes vaporariorum* 4079
 orientation, cortex (anteromedial) lesions effects on, rats 4241
 orientation, development, cortex (visual), juveniles, cats 861
 orientation, flight activity, *Musca domestica* 641
 orientation, vestibular interactions 4074
 patterns, cortex, models 1074
 physiology, *Bombus horonotus* 707
 pigeons 4081
 pigeons, environmental factors 719
 preferential behavior, color, genetics, juveniles, *Coturnix coturnix japonica* 1889
 retina, visual discrimination learning, pigeons 4085
 sensitivity, menstrual cycle effects on 1897
 species recognition, discrimination learning, juveniles, chickens 1776
 tracking, 710
 tracking movements, adaptation, direction 4075
 tracking, orientation, mathematics, *Musca domestica* 706
 tracking, oscillations, *Musca domestica* 713
 visual deprivation, critical flicker frequency, cats 4087
 visual deprivation effects on, cats 4089
 visual discrimination, age effects 1898
 visual discrimination, cortex (occipital) lesions, rabbits 3194
 visual discrimination, locomotion, walking, *Drosophila melanogaster* 708
 visual discrimination, pigeons 4082
 visual preferences, conditioning, *Acheta domestica* 4102
 visual stimuli, binocular input effects on 1880
 visual stimuli, flight, *Musca domestica* 709
 visual stimuli, optomotor response, *Saimiri sciureus* 729
 visual stimuli, physiology, *Rana esculenta* 828

Visual preferences,
 imprinting, maternal effects, calling behavior, juveniles, ducks 1601
 visual perception, conditioning, *Acheta domestica* 4102

Visual stimuli,
 aggressive behavior, conspecifics, *Betta splendens* 2323
 associative learning, vocalization behavior, *Graula religiosa* 3400
 attractants, hosts, *Anopheles ziemanni* 1881
 auditory stimuli, contingency, map 1713
 avoidance behavior, *Micrytus platychelis* 705
 color, effects on cortex (inferotemporal) neurons response, monkeys 728
 color, light, vision, adaptations 701
 color matching, substrate preferences, polymorphism, *Circotettix rubula rubula* 3051
 color, reward, reinforcement, patterning, *Carassius auratus* 1646
 coloration, cryptis, *Platycephalus anenurus* 467
 compound eyes, optomotor response, flight activity, *Apis mellifera* 3034
 courtship behavior, effects on hormones, *Streptopelia risoria* 1301
 early experience, effects on male learning, rats 1614
 effects on aggressive behavior, predation, *Betta splendens* 61
 effects on color preferences, juveniles, chickens 1888
 effects on duration discrimination learning, interstimulus interval, pigeons 1774
 effects on maze learning, rats 1781
 fear conditioning, retention, rats 3966
 flight, sex pheromone, chemotaxis, *Grapholitha molesta*, *Heliothis virescens* 3005
 food, toxicosis, aversion learning, rats 1751
 gono-go discrimination learning, blocking, rats 1686
 host searching behavior, feeding behavior, *Glossina* 318
 imprinting, biochemistry, lesions, hyperstria, chickens 835
 landing behavior, orientation, *Scaptomyza aeneus* 1905
 learning behavior, lesions effects on, amygdala, cortex (temporal), monkeys 3208
 learning behavior, memory, population characteristics, *Drosophila* 1770
 lid suture, amblyopia, visual deprivation, *Maccaca mulatta* 725
 light, effects on taste perception sensitivity 1900
 light polarization, role, navigation behavior, *Corixidae* 1841
 manipulation, effects on cortex (prefrontal) EEG, monkeys 870
 mating behavior role, *Heliothis zea* 3511
 measuring techniques, methodology, Pisces 2196
 memory, retention, matching-to-sample, *Saimiri sciureus*, man 1830
 mutants, phototaxis, courtship, *Drosophila melanogaster* 2876
 navigation, behavior, orientation, swimming, *Aplysia brasiliana* 631
 nesting behavior, burrows, *Tridentiger obscurus* 2835
 neurons, cortex (visual), neurophysiology, appetitive behavior, cats, rabbits 2008
 olfaction, host searching behavior, *Glossina* 319
 ontogeny, feeding behavior, juveniles, *Aldidae* 1600
 orientation, flight, *Drosophila hydei* 3052
 phototaxis, visual evoked response, escape behavior, *Microchiroptera* 1892

Visual stimuli, (continued)

predatory behavior, molting, *Ranatra linearis* 3669
 predatory behavior, prey acquisition, *Rana pipiens* 1448
 prey acquisition, lesions, optic tectum, *Rana pipiens* 2012
 recognition, aggressive behavior, dominance, *Potomorus fluviatile* 93
 recognition, conspecifics, heterospecifics, aggressive behavior, *Dasyllus aruanus*, *Dasyllus marginatus* 1195
 recognition, matching task, monkeys 724
 recognition, predators face, coral reefs, Pisces 3809
 recognition, visual discrimination learning, conditioned response, dogs 596
 reinforcement, operant conditioning, variable interval schedule, pigeons 3909
 response, correlation, neurons, optic nerve, *Rana nigromaculata* 714
 role, mating behavior, deserts, *Drosophila* 1267
 schooling behavior, larvae, *Rhinophryne dorsalis* 3615
 second-order schedule, drug effects, amphetamine, response, *Saimiri* 1026
 social behavior, juveniles, *Maccaca radiata* 1386
 stimulus control, conditioned suppression, *Colonia* 718
 vision, contrast sensitivity, physiology 702
 vision, contrast-flash effect, visual masking 1878
 visual evoked response, attraction, conspecifics, photographs, *Dasyllus aruanus* 1886
 visual perception, binocular input effects on 1880
 visual perception, flight, *Musca domestica* 709
 visual perception, optomotor response, *Saimiri sciureus* 729
 visual perception, physiology, *Rana esculenta* 828

Visual threshold,
 pentobarbital effects on, *Papio* 2171.

Vitamins,
 deficiency, retinal, feeding behavior, gustatory stimuli, juveniles, chickens 373
 thiamin deficiency, feeding behavior, food spillage, food intake, rats 3757.

Vitellogenesis,
 effects on host searching behavior, inhibition, *Aedes aegypti* 1440.

Vocalization,
 auditory communication, *Tympanuchus cupido*, *pedicetes phasianellus* 1170.
 copulation, sexual receptivity, rats 1181.
 courtship, chemical stimuli, conspecific odors, *Mus musculus* 1182.
 courtship, display, pair bond chronology, *Aix sponsa* 1315.
 courtship, mating behavior, females, *Eutamias* 2490.
 song, auditory communication, *Lybys torquatus* 1169.
Sporotheca venustus, *Cercodyon thous*, *Chrysocyon brachyurus* 1183.

Vocalization behavior,
 acoustics, burrows morphology effects on, *Heleopon* 33.
 aggression, mating behavior, males, *Mirounga leonina* 1211.
 alarm behavior, duetting, *Oreotragus oreotragus* 2311.
 alarm behavior, juveniles perception, domestication effects on, *Anas platyrhynchos* 508.
 alarm behavior, *Spermophilus beldingi* 3431.
 alarm behavior, *Spermophilus tridecemlineatus* 3430.
 arousal, song, territorial behavior, interspecific relationships, *Agelais phoeniceus* 233.
 auditory communication, feeding, competition, juveniles, *Cuculus canorus* 3815.
 auditory communication, *Fulmarus glacialis*, *Oceanodroma leucorhoa* 3401.
 auditory communication, geographical variations, *Marmalia* 2310.
 auditory communication, ontogeny, *Passeriformes* 3403.
 breeding adults, *Seiurus aurocapillus* 40.
 calling behavior, male selection, *Hyperolius marmoratus* 1155.
 calling behavior, *Pipilo ocai*, *Pipilo erythrophthalmus*, *Atlapetes brunneinucha*, *Atlapetes pileatus* 2334.
Canis lupus, USA, Minnesota, Superior National Forest 3821.
 circadian rhythms, testosterone effects on, *Coturnix japonica* 3100.
 classification, statistical analysis, *Saimiri sciureus* 2315.
 conspecifics, auditory perception, neurons, *Alytes obstetricans* 3815.
Bufo viridis 3070.
 cortex (cingulate) lesions effects on, *Maccaca mulatta* 913.
 defensive behavior, predators, *Cynia tenera*, *Chiroptera* 2806.
 denervation, extrinsic syringal muscles, frequency control, juveniles, chickens 783.
 diel variations, *Indri indri* 2314.
 discrimination, conditioning, social behavior, lesions, cortex (cingulate), *Maccaca mulatta* 804.
 discrimination learning, conditioning, operant response, monkeys 1799.
 display, *Herpestes sanguineus* 3436.
 distress, ecological distribution, *Aves* 2291.
 distress, endorphins effects on, guinea pigs 49.
 distress, neonates, chickens 3406.
 distress, opiates effects on, juveniles, chickens 785.
 distress, *Passeriformes* 2298.
 dominance, spatial distribution, social organization, *Alouatta palliata* 3649.
 echolocation, *Eptesicus fuscus* 4063.
 energetics, *Physalaemus pustulosus* 3802.
 ESB effects on, midbrain, *Gecko gecko* 3218.
 estrogens, testosterone, castration, males, *Streptopelia risoria* 2174.
 Felidae 3432.
 food sources, altruism, *Parus atricapillus* 2295.
 food sources, flight, male, *Nectarinia ventralis* 3413.
 foraging behavior, activity patterns, *Petroica australis australis* 3860.
 hormones, effects on song, females, *Troglodytes gabriellae* 3415.
 hormones, neuroendocrine system, behavior modulation, reviews 4397.
 juveniles, development, mother-offspring interactions, *Molossus molossus* 2550.
 malnutrition effects on, rats 1603.
 man, Primates, books 4494.
 mating behavior, *Hyla cinerea* 2448.
 mating behavior, males, *Hyla arborea* 3415.
 mating behavior, predation effects on, *Physalaemus pustulosus* 2281.
 mating behavior, thermoregulatory behavior effects on, *Bufo woodhousei* 149.
 mother-offspring interactions, prenatal experience, chickens 3589.
 motor skill learning, brain, *Aves* 833.
 nesting behavior, copulation, social behavior, *Himantopus himantopus* 2898.
 open-field behavior, norlevomethadyl acetate intrauterine exposure effects on, chickens 4302.
 optomotor response, defensive behavior, emotional behavior, cats 76.
 phylogeny, paleoecology, geographical distribution, *Colubus badius* 2313.
 prey, predation effects on, *Chiroptera*, *Anura* 2280.
 recognition, mother-offspring interactions, *Ovis* 3434.
 recognition, offspring, parental behavior, *Gymnorhinus cyanocephalus* 2302.

Vocalization behavior, (continued)

- reinforcement, tapes, *Symphalangus syndactylus* 1185.
 - reproductive status, intraspecific relationships, *Megaptera novaeangliae*, Hawaii, Tropical Pacific Ocean 46.
 - response, predators, social interactions, sex differences, *Spermophilus beecheyi* 2312.
 - seasonal variations, diel variations, *Canis latrans* 3435.
 - sex differences, age, *Macaca fuscata*, *Macaca silenus* 3441.
 - sheltering behavior, storms, *Pluvialis apricaria* 2846.
 - social behavior, spatial distribution, males, *Hyla ecrassata* 32.
 - song complexity, learning behavior, geographical variations, *Troglodytes troglodytes* 42.
 - song, deafness, *Serinus canarius* 3417.
 - song, defensive behavior, territorial behavior, *Agelaius phoeniceus* 2362.
 - song, distribution, evolution, *Phylloscopus* 43.
 - song, forebrain size, sex differences, *Serinus canarius* 782.
 - song, forests acoustic effects on, *Thryothorus ludovicianus* 39.
 - song, geographical variations, environmental effects, *Zonotrichia capensis*, Argentina 475.
 - song, location, geographical distribution, conspecifics, *Poecetes gramineus* 1160.
 - song matching, conspecifics, *Turdus merula* 1174.
 - song, *Melospiza melodia* 3402.
 - song, mimicry, *Melospiza lincolni* 2293.
 - song, nesting behavior, *Merops apaster* 2304.
 - song, neurophysiology, brain, *Serinus canarius* 811.
 - song, ontogeny, *Melospiza georgiana* 3419.
 - song sequence, geographical variations, *Passerculus sandwichensis*, Canada 37.
 - song, territorial behavior, courtship, *Seiurus aurocapillus* 41.
 - song, territorial behavior, horizontal distribution, distance, *Luscinia megarhynchos* 232.
 - song, variability, *Vireo griseus* 36.
 - sound production, *Balaena mysticetus* 2309.
 - sound production (biological), comparison, 5 species, Cetacea 1179.
 - sound production (biological), Delphinidae 45.
 - sound production, biology, reviews, Aves 3407.
 - sound production, geographical distribution, *Eleutherodactylus coqui* 3395.
 - spatial distribution, interspecific relationships, aggressive behavior, *Cistothorus palustris*, *Agelaius phoeniceus* 3445.
 - territorial behavior, colonial characteristics, *Arctocephalus australis* 2901.
 - territorial behavior, social spacing, *Callipepla moloch* 3481.
 - territorial behavior, *Vireo griseus* 1157.
 - trimethyltin effects on, hippocampus degeneration, rats 4312.
 - ultrasound, hormones, social interactions, sexual reproduction, Rodentia 4403.
 - underwater communications, *Hydrurga leptonyx*, ice floes, Antarctica Coast 1176.
 - visual stimuli, associative learning, *Gracula religiosa* 3400.
- Volatiles**
- chemotaxis, dehydration, water content, effects on, olfactory perception, cages, *Eucelatoria*, *Hibiscus esculentus* 637.
- Volume**
- visual discrimination, rearing effects on, *Mesocricetus auratus* 1891.
- Vulnerability**
- predation, escape behavior, reproduction effects on, *Lacerta vivipara* 2817.
- Vulpes vulpes**
- nesting behavior, dens, site selection, habitat utilization, geographical distribution, Germany, Fed. Rep., Saarbrücken 3825.
 - predatory behavior, caching, Canada, Newfoundland, Baccalieu I. 2743.
 - rabies epizootiology, social behavior, mathematical models 3824.
- Walking**
- comparison, *Trochosa ruricola*, *Lycosa tarentula* 685.
 - coordination, limbs, *Deiters'* neural activity, cats 3046.
 - coordination, limbs, electromyographic activity, ablation, cerebrum, cats 3047.
 - coordination, Phasmidae 682.
 - distance, grazing, management, cattle 3355.
 - drug effects, L-5-hydroxytryptophan, mice 979.
 - escape behavior, mechanical stimuli discrimination, wind, *Periplaneta americana* 1906.
 - escape behavior, neurophysiology, *Periplaneta americana* 1977.
 - grazing, effects on, reproductive behavior, cattle 2207.
 - locomotion, *Choleopus hoffmanni* 3048.
 - locomotion, evolution, aquatic environment, man 3856.
 - locomotion, evolution, Hornidae 3857.
 - locomotion, evolution, man 3854.
 - locomotion, *Perodicticus potto* 1876.
 - locomotion, visual discrimination, visual perception, *Drosophila melanogaster* 708.
 - locomotor activity, pain effects on, horses 4454.
 - movements, roads effects on, *Odontocoris hemonius* 490.
 - ontogeny, locomotion, infants 1877.
 - terrestrial environments, *Odobenus* 1875.
- Water**
- deprivation, operant conditioning, rats 1696.
 - deprivation, orientation, temporal discrimination, reinforcement schedules, pigeons 1667.
 - escape learning, *Formica rufa* 1717.
 - immersion, grooming, rats 3364.
 - intake, brain, hypodipsia, lesions, rats, thirst 402.
 - reinforcement schedules, operant response, rats 1699.
- Water availability**
- effects on social behavior, activity patterns, *Hydrochoerus hydrochaeris* 2580.
- Water balance**
- regulation, drinking behavior, *Bufo arenarum* 3803.
- Water chemistry**
- olfactory perception, olfactory discrimination, *Anguillula* 3075.
- Water conductivity**
- effects on electric communication, *Brienomyrus niger* 3397.
- Water currents**
- orientation, migrations, *Salmo gairdneri* 3009.
- Water intake**
- acetylcholinergic acid, effects on drinking behavior, hypovolemia, rats 4393.
 - alcohol effects on, intraurterine exposure, rats 3257.
 - drinking behavior, angiotensin, structure-activity relationships, rats 4156.
 - drinking behavior, feeding, food intake, dogs 1514.

Water intake, (continued)

- drinking behavior, pigs 3352.
 - drugs, spermine, rats 3296.
 - endorphins, opiates effects on, rats 955.
 - ethanol, reinforcement, *Macaca mulatta* 556.
 - feeding behavior, environmental factors, climate, sheep 387.
 - feeding behavior, laboratory animals, food intake, *Macaca fuscata* 415.
 - food intake regulation, feeding behavior, *Gallus gallus* 361.
 - 6-hydroxydopamine lesions, caudate putamen, rats 3195.
 - naloxone effects on, diabetes insipidus, rats 2125.
 - naloxone effects on, neurophysiology, rats 1011.
 - naloxone effects on, rats 2110.
 - operant conditioning, intracranial chemical stimulation, cholecystikinin octapeptide, pigs 927.
 - phenylcholine effects on, rats 2117.
 - reinforcement, naloxone, naloxone effects on, rats 4375.
 - suppression, drug effects, *Rattus rattus*, 2082.
 - thirst effects on, ducks 378.
 - ventricle (third) lesions effects on, sheep 4232.
 - water resources, snow, adaptations, sheep lactation 407.
- Water levels**
- effects on ventilatory behavior, *Upogebia africana*, *Upogebia* 426.
- Water loss**
- grooming, dehydration effects on, *Rattus norvegicus* 2869.
- Water resources**
- snow, adaptations, water intake, sheep lactation 407.
- Water temperature**
- effects on predation, *Panopeus herbstii*, *Mercenaria mercenaria* 261.
 - effects on swimming behavior, vertical migrations, *Daphnia* 3773.
 - effects on vertical migrations, *Daphnia magna* 3772.
- Wavelength**
- light, effects on phototaxis, *Dendroctonus pseudotsugae*, *Trypodendron lineatum* 1883.
- Waves**
- cortical, reinforcement signals effects on, *Saimeri sciura* 878.
- Weaning**
- aggression, azaperone effects on, housing, pigs 2217.
 - alcohol, effects on seizures susceptibility, mice 2108.
 - competition, age, population density, *Mirounga angustirostris* 2484.
 - effects on hormones, *Mesocricetus auratus* 1349.
 - juveniles, feeding behavior, cats 1518.
 - pituitary adrenal gland, hormone release, open-field behavior, avoidance behavior, juveniles, pigs 1348.
- Weather**
- effects on activity patterns, Rodentia, Canada, Quebec 483.
 - effects on migrations, *Anser caerulescens*, USA, Texas 653.
 - environmental effects, flight activity, *Buteo jamaicensis* 1872.
 - environmental effects, flight activity, *Dendroctonus frontalis* 455.
 - migrations, *Phoebastria sennae*, *Urbanus proteus*, *Agraulis vanillae*, *Precis coenia* 3007.
 - milk production, seasonal variations, emotionality, *Bos bubalis* 4452.
- Webs**
- construction, interspecific relationships, *Dendromyrmex chartifex*, *Dendromyrmex fabricii* 1534.
 - food organisms escape behavior, Lepidoptera, Araneidae 440.
 - orientation, solar radiation, effects on, thermoregulation, *Micrathena gracilis* 2998.
 - predatory behavior, food preferences, *Mastophora dizzideani* 1523.
 - predatory behavior, *Portia fimbriata*, Australia, Queensland 2604.
 - silk, resting behavior, Insecta 2807.
 - site location, foraging behavior, strategy, Araneidae, Linyphiidae 2610.
 - spinning, *Signiphora coquilletti*, spinning, webs, *Signiphora coquilletti* 4487.
 - structure, function, aquatic environment, predatory behavior, *Wendilgarda* 1395.
 - structure, social behavior, sanitation, *Mallos gregalis* 1359.
 - structure, stabilimenta, defense mechanisms, *Argiope aurantia*, *Argiope trifasciata* 1525.
- Weight**
- brain, exploratory behavior, mice 1111.
- Wendilgarda**
- predatory behavior, webs, structure, function, aquatic environment 1395.
- Wet-dog shakes**
- drug effects, rats 4362.
 - grooming, drug effects, rats 4281.
- Wheel running**
- acrylamide effects on, rats 4306.
 - activity patterns, rhythms, captivity, *Icodon macrourus*, *Parames nasuta* 3101.
 - alcoholic beverages, intraurterine exposure, rats 3251.
 - avoidance behavior, social interactions, rats 565.
 - butylated hydroxyanisole effects on, juveniles 3242.
 - circadian rhythms, photoperiod effects on, mice 4139.
 - circadian rhythms, photoperiods, drug effects, lithium, rats 1938.
 - circadian rhythms, photoreceptors, light effects, *Onychomys leucogaster*, *Spermophilus lateralis* 760.
 - drug effects, *Rattus rattus*, 2082.
 - effects on food intake, rats 4489.
 - feeding behavior, food availability, circadian rhythms, rats 4140.
 - food intake effects on, obesity, genetic control, rats 4488.
 - locomotor activity, alcohol effects on, rats 2103.
 - motivation, *Mammalia* 2245.
- Wiedemannia lepidia**
- matung behavior, courtship 1281.
- Wild type**
- genetic factors, agonistic behavior, rats 1212.
- Wildlife**
- activity patterns, tracking, radio-tagging, telemetry, electronic equipment 4429.
- Wildlife conservation**
- activity patterns, feeding behavior, habitat, *Dugong dugon* 2902.
- Wildlife management**
- agricultural land, food preferences, habitat preferences, *Pardipex pardipex* 479.
 - territorial behavior, food sources, *Odontocoris virginianus* 2488.
- Wilsonia pusilla**
- foraging behavior, seasonal variations 3710.
- Wind**
- effects on escape behavior, walking, neurophysiology, *Periplaneta americana* 1977.
 - environmental factors, flight activity, food, temperature, *Schistocerca gregaria* 1861.

Wind, (continued)

- environmental factors, homing behavior, pigeons 663.
- mechanical stimuli, discrimination, escape behavior, *Penplaneta americana* 1906.
- migrations, *Phoebastria sennae*, *Urbanus proteus*, *Agraulis vanillae*, *Precis coenia* 3007.
- nesting behavior, habitat selection, *Larus argentatus* 2466.
- orientation, chemical stimuli, flowers, *Hadena bicruris*, *Deilephila elpenor* 3008.
- orientation, homing behavior, *Polistes gallicus*, Italy 643.

Wings,

- chemoreceptors, effects on feeding behavior, *Phormia regina* 1902.
- defective mutant, feathers, flight activity, chickens 3043.
- display, wing-flicking behavior, *Saxicola torquata* 3421.
- drying, thermoregulatory behavior, *Anhinga anhinga* 3817.
- flight activity, wing-beat frequency, *Locusta migratoria* 1868.
- motor activity, nesting behavior, juveniles, *Coragyps atratus*, Panama 2896.

Winter,

- feeding behavior, carrion, *Stercorarius parasiticus* 2733.
- feeding behavior, food preferences, *Canis lupus pambasileus* 404.
- feeding behavior, foraging behavior, *Alauda arvensis* 2732.
- feeding behavior, sex differences, *Cervus elaphus* 2755.
- habitat preferences, sex differences, *Falco sparverius* 472.
- migrations, food availability, territorial behavior, *Phylloscopus trochiloides*, India 87.
- nests, social interactions, interclan pressure, home range, *Picoides borealis* 1222.
- survival, cold tolerance, thermoregulatory behavior, *Alligator mississippiensis* 2819.

Wistar rat,

- taste aversion, drug effects, morphine, lesions, periaqueductal grey area 3186.

Withdrawal,

- approach behavior, response man, *Sus* 1100.
- drug tolerance, nicotine, effects on behavior, rats 938.
- reinforcement, autoshaping, novelty stimuli, reinstatement, pigeons 3894.

Wood,

- chewing, schedule-induced behavior, reinforcement schedules 3945.

Work,

- preferences, multiple schedule, reinforcement, rats 553.

Workers,

- castes, colonial characteristics, *Lasiosiglossum zephyrum* 2567.
- egg laying behavior, *Bombus terrestris* 125.
- food consumption, colonial characteristics, *Solenopsis invicta* 1411.
- foraging behavior, fungus gardens, colonial characteristics, *Macrotermes michaelseni* 1592.
- larvae feeding, *Bombus terrestris*, *Bombus terrestris* 308.
- larvae removal, disease resistance, brood disease, *Apis mellifera* 3785.
- mating behavior, queens effects on, *Lasiosiglossum zephyrum* 1240.
- Nasonov gland pheromones, attractancy, *Apis mellifera* 2262.
- nest building (non-reproductive), territoriality, *Apicotermes lamani* 2565.
- nesting behavior, colonial characteristics, *Polistes chinensis antennalis* 1532.
- queens sex pheromone extracts, attractancy, *Apis mellifera ligustica* 3389.
- queens, social behavior, colonial characteristics, *Apis mellifera* 1217.
- recruitment, feeding behavior, trail pheromone, *Myrmica rugulosa* 2634.
- recruitment, foraging behavior, pheromones, *Myrmica rugulosa* 2645.
- sound production (biological), stridulation, *Lepidoborax muscorum* 1131.
- swarming behavior, aggression, pheromones, *Atta*, *Acromyrmex* 2558.

Xanthippus corallipes,

- stridulation, auditory communication 19.

Xanthocephalus zealandica,

- thermoregulatory behavior, body temperature, New Zealand 2815.

Xenopus laevis,

- pineal eye, role, locomotor activity, larvae 4080.
- schooling behavior, spatial distribution, orientation, larvae 3796.
- swimming behavior, training, metabolism 691.
- swimming, neurophysiology, embryos 3139.

Xiphias gladius,

- activity patterns, diel variations, horizontal distribution, vertical distribution 1595.
- diurnal variations, vertical migrations, activity patterns, temperature effects 471.

Xylocopa pubescens,

- colonial characteristics, nesting behavior, social behavior 2568.

Xylocoris,

- mating behavior, natural selection 144.

Yawning behavior,

- corticotropin modulation, *Columba livia* 4402.
- head-scratching, endogenous stimuli, *Rhynchops niger* 2897.
- hormones effects on, guinea pigs 1056.
- hormones, neurons, mechanisms, drug effects, physostigmine, pilocarpine, rats 848.
- serotonin, dopamine effects on, cats 1967.
- sex hormones effects on, rats 3310.

Yield,

- milk production, locomotor activity, sequence, cow entry order, orientation, cattle 1854.

Young,

- color preferences, intraspecific relationships, *Anas platyrhynchos* 716.

Zea mays,

- food availability, feeding behavior, *Agelaius phoeniceus*, Canada, Ontario 1564.

Zebrafish flavescens,

- thermoregulatory behavior, temperature tolerance, Indo-Pacific region 1562.

Zenaidura macroura,

- nesting behavior, breeding success 1333.
- reproductive behavior, migrations, methodology, tagging, remote sensing 1089.

Zinc,

- nutrient deficiency, effects on associative learning, rats 3882.
- nutrient deficiency, effects on open-field behavior, age, rats 3886.
- pollution effects, valves movements, *Scrobicularia plana* 2776.

Zinc phosphide,

- taste aversion learning, bait shyness, *Rodentia* 3959.
- toxicity, avoidance learning, *Mustela eversmanni* 3963.

Zona incerta,

- lesions, effects on feeding behavior, taste perception, rats 4235.

Zonation,

- intraspecific relationships, competition, body size, *Littorina unifasciata* 1527.

Zonocerus variegatus,

- oviposition, diurnal variations, aggregation, environmental factors 1280.
- sound production (biological), auditory communication, males 1142.

Zonotrichia albicollis,

- territorial behavior, defensive behavior 2361.

Zonotrichia capensis,

- song, vocalization behavior, geographical variations, environmental effects 475.

Zonotrichia leucophrys,

- auditory discrimination, song dialects, response 1167.
- song, early experience effects on 1162.

Zonotrichia leucophrys gambelli,

- feeding behavior, diets, effects on gonads 3549.

Zonotrichia leucophrys nuttalli,

- population structure, territorial behavior, breeding success 2357.
- song, auditory communication 1630.
- song, habituation, sensitization 3892.

Zonotrichia leucophrys oriantha,

- mate selection, song, copulation display, locomotor activity 3399.

Zonotrichia querula,

- social rank, dominance, subordination, feathers color, plumage badge 94.

Zooplankton,

- diel variations, vertical distribution, Gennadas, Benthogeomys, Gulf of Mexico 1404.
- food organisms, abundance, effects on predators feeding behavior, *Lepomis macrochirus* 3690.
- food organisms, body size, food preferences, larvae, *Clupea harengus* 3700.
- food organisms, feeding behavior, *Engraulis mordax* 2677.
- food organisms, predation, *Neomysis mercedis*, USA, Washington, Washington L. 266.
- foraging behavior, predation, *Oncorhynchus nerka* 2674.
- locomotor activity, Crustacea 671.
- migrations, diurnal variations, horizontal distribution, Mastigias, Caroline Is., Palau 627.
- predation, food preferences, body size, feeding behavior, *Neomysis mercedis* 1394.
- chronic effects, stereotyped behavior, rats 3258.

Zygena ephialtes,

- sex pheromone, attractancy, chemical communication 2264.

Zygena hippocrepidis,

- sex pheromone, attractancy, chemical communication 2264.



cambridge scientific abstracts

ABSTRACTS JOURNALS ☐ ONLINE ☐ MAGNETIC TAPE

JOURNALS

Animal Behavior Abstracts

Aquatic Sciences & Fisheries Abstracts:

Part 1 - Biological sciences & living resources

Part 2 - Ocean technology, policy & non-living resources

Biochemistry Abstracts:

Part 1 - Biological Membranes

Part 2 - Nucleic Acids

Part 3 - Amino-acids, Peptides & Proteins

Calcified Tissue Abstracts

Chemoreception Abstracts

Computer & Information Systems Abstracts Journal

Conference Papers Index

Ecology Abstracts

Electronics & Communications Abstracts Journal

Entomology Abstracts

Genetics Abstracts

Immunology Abstracts

ISMEC (Information Service in Mechanical Engineering) Bulletins

Microbiology Abstracts

Part A - Industrial & Applied

Part B - Bacteriology

Part C - Algology, Mycology & Protozoology

Oceanic Abstracts

Pollution Abstracts

Safety Science Abstracts Journal

Science Research Abstracts Journal

Solid State Abstracts Journal

Toxicology Abstracts

Virology Abstracts

BACK VOLUMES

Back volumes are available for all CSA journals more than one year old, in either printed or microfiche form.

MAGNETIC TAPE

The CSA journals are available on magnetic tape in machine-readable form for current awareness and retrospective batch searching. Contact CSA Marketing Department for specifications and prices at 301-951-1403.

ONLINE

Some of the above journals are available on differing online information systems including:

- ☐ DIALOG® Information Retrieval Service
- ☐ Bibliographic Retrieval Service
- ☐ Information Retrieval Service (European Space Agency)
- ☐ System Development Corporation Search Service.

For further details contact CSA Database Services, toll free at 800-638-8076. In Maryland and outside continental U.S., call 301-951-1300.

Animal
Behavior
Abstracts